

CONSUMER



SABIC SOLUTIONS FOR CONSUMER GOODS

Plastics play an important role in the manufacture of consumer goods as well as small and large home appliances, which have become ever-present in our daily lives. In view of a rising middle class in an increasingly urban population worldwide, manufacturers are continuously striving to create stronger, lighter and more durable products offering excellent aesthetics, greater functionality and higher performance along with sustainable energy and resource efficiency. Key driving needs of these industries are waste reduction, circularity, use of renewable feedstock, and enhanced consumer appeal.

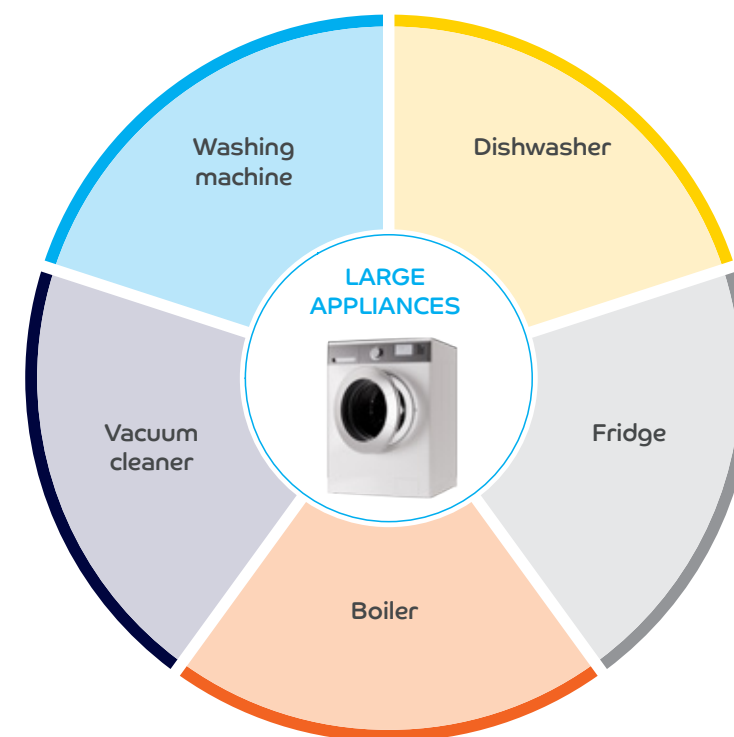
SABIC offers tailor-made solutions to meet these challenges; with a broad portfolio of engineering thermoplastics and polymer solutions- Polypropylene, Acrylonitrile Butadiene Styrene (ABS), Polybutylene Terephthalate (PBT), Polystyrene (PS), Polycarbonate (PC), Polyethylene Terephthalate (PET), Polyethylene (PE), High-Density Polyethylene (HDPE)-, that supports design for recyclability and offer compliance with safety regulations while providing enhanced aesthetic appeal. Our collaborations with value chain partners and brand owners for sustainable consumer goods,

and appliances align closely with SABIC's TRUCIRCLE™ portfolio and services to accelerate the journey towards circularity and reduce the climate impact of these products.

The Sports & Leisure industry is a big user of foamed products that provide the core of many applications, as well as for total end-product solutions. Polymeric foams play an important role to address many challenges faced by the industry, such as light weighting, cushioning, softness, impact resistance and durability.

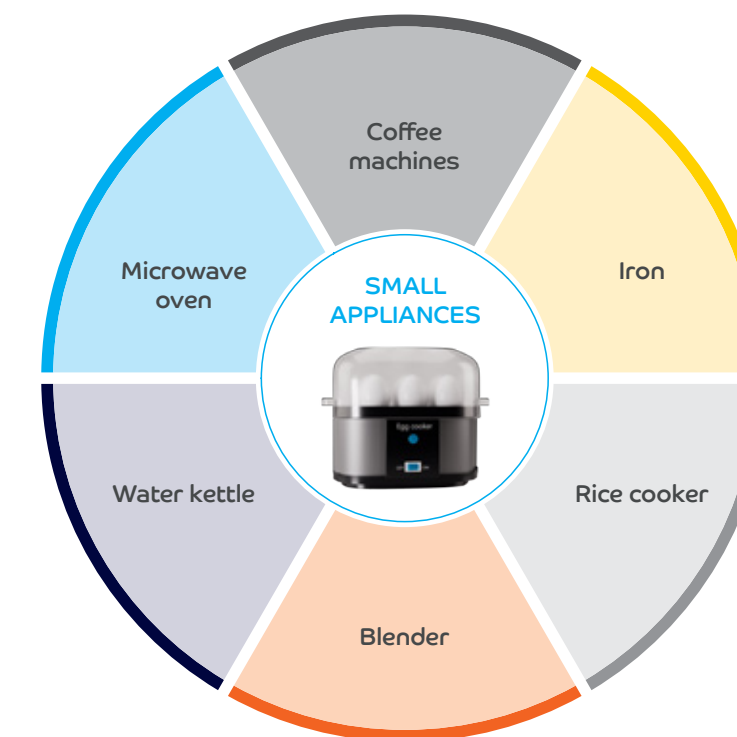
LARGE APPLIANCES

- Washing machine
- Dishwasher
- Fridge
- Boiler
- Vacuum cleaner



SMALL APPLIANCES

- Coffee machines
- Iron
- Rice cooker
- Blender
- Water kettle
- Microwave oven



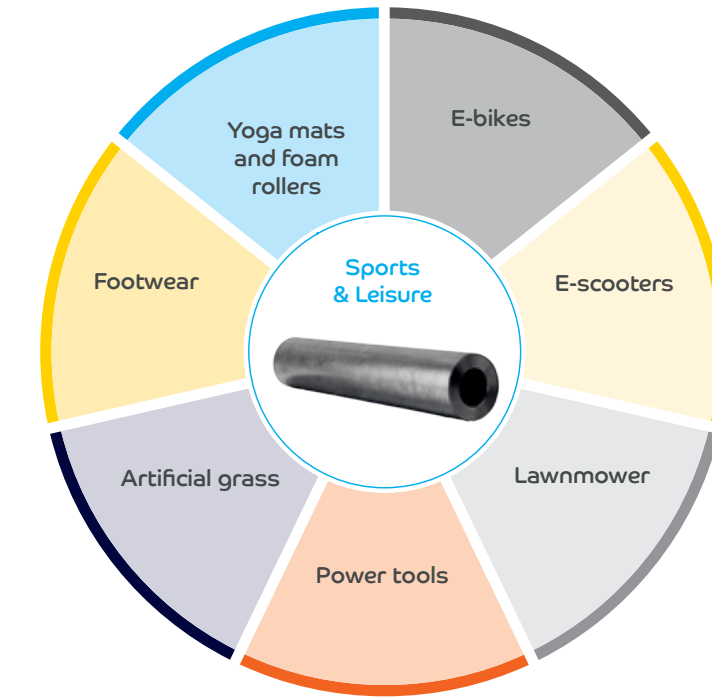
CONSUMER GOODS

- Durable household containers
- Reusable straws
- Suitcases and luggage
- Eyeglasses
- Toiletries
- Furniture



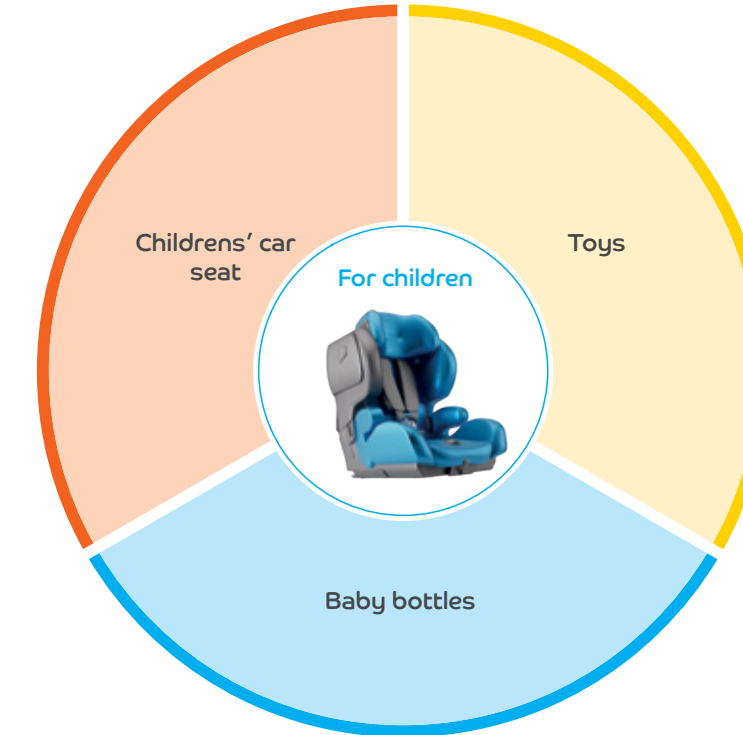
SPORTS & LEISURE

- E-bikes
- E-scooters
- Lawnmower
- Power tools
- Artificial grass
- Footwear
- Yoga mats and foam rollers



FOR CHILDREN

- Toys
- Baby bottles
- Childrens' car seat



Laser Direct Structuring (LDS) Solution for Earphones

LNPT™ THERMOCOMP™ Compounds



SOLUTION SUMMARY

- High flow for small parts with complicated structures
- Heat resistance required for high temperature assembly process
- Flame resistance with a good balance of mechanical properties
- Each part weighs <100 grams

VALUE PROPOSITION



- Dimensional stability
- Good aesthetics
- Flame retardant
- Heat resistance



Sustainability Solution for Cosmetic Applications

LNPT™ ELCRIN™ Compounds



SOLUTION SUMMARY

- Sustainability grade for carbon footprint reduction
- Better chemical resistance, compared to alternative options while maintaining drop/impact strength
- Formulation locked as required by such applications
- Each part weighs <100 grams

VALUE PROPOSITION



- FDA compliant
- Sustainability
- Chemical resistance
- Easy processing



Children Car Seat

SABIC® PP PHC27 Copolymer



SOLUTION SUMMARY

- Ensures compliance with European safety standard
- Has good aesthetics and ease of processing
- SABIC material share of this application is 70%



VALUE PROPOSITION



- Safety compliance
- ECE-R129 (crash testing)
- Superior mechanical performance
- Easy processing and aesthetics
- 10% in weight reduction

Tricycle

SABIC® PP 37MK10R Impact Copolymer



SOLUTION SUMMARY

- High impact performance, good stiffness, good process ability, low shrinkage
- Used as a solution for tricycle which required excellent physical properties and high safety standards
- SABIC material share of this application is 40%



VALUE PROPOSITION



- Superior mechanical properties
- Good dimensional stability
- Good process-ability

Housewares Storage Box

SABIC® PP 5706P Polymer



SOLUTION SUMMARY

- High stiffness, good flow ability, excellent glossiness
- Suitable for housewares storage box
- SABIC material share of this application is 100%

VALUE PROPOSITION



- High stiffness leads to more rigidity
- Excellent optical
- Good process-ability



Mattress and Furniture

SABIC® POLYOL 0548 / 0656/ 0434/1127/1529, SABIC® TDI 0380 Polyurethane Foam



SOLUTION SUMMARY

- Used in the production of bed mattresses and sofas
- Provides comfort and high elasticity
- SABIC material share of this application is 100%

VALUE PROPOSITION



- Design freedom
- Easy processing
- Light weight
- Durability



Bathroom Shower Drain

SABIC® PP Compound 55T1030B

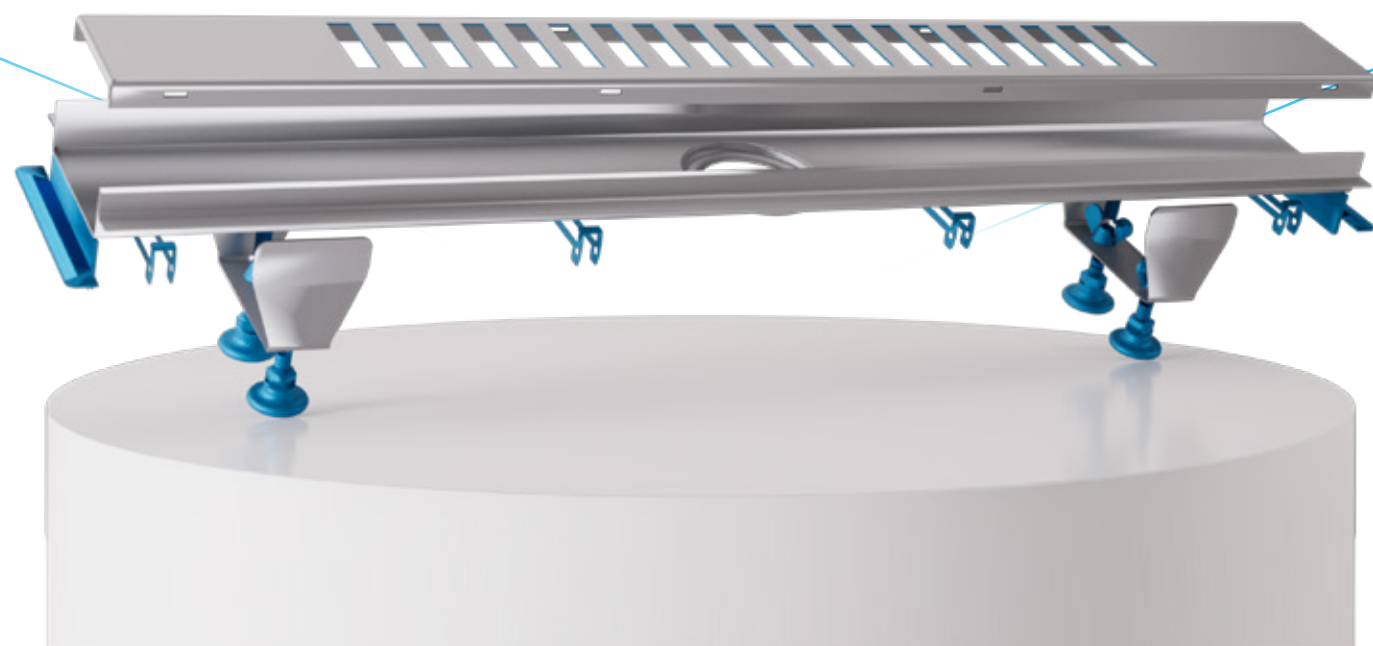


SOLUTION SUMMARY

- One material solution
- Now used as reference for new customer projects
- SABIC material share of this application is 100%

VALUE PROPOSITION

- One material solution



Toilet Flush System

SABIC® PP 528K Polymer



SOLUTION SUMMARY

- Good processability, high stiffness, clarity, good printability
- Suitable for toilet flush system
- SABIC material share of this application is 100%

VALUE PROPOSITION

- Good clarity
- High stiffness
- Easy processing



Earphone Housing

NORYL™ Resins



SOLUTION SUMMARY

- Good bonding strength with silicone and heat resistance for hardening of silicone
- Easy processing and strength for thin-wall parts
- High modulus for good sound effect
- Each part weighs <100 grams

VALUE PROPOSITION



- Chemical resistance
- Easy processing
- Mechanical strength
- Heat resistance



Appliances

CYCOLAC™ Resin MG47



SOLUTION SUMMARY

- Designed for appliances applications like washing machines, refrigerators
- Excellent toughness properties
- Dimension stability and ease of machining
- First choice for appliances applications
- SABIC material share of this application is 20%

VALUE PROPOSITION



- Good Mechanical Properties
- Ease of Machining
- Excellent Toughness Properties
- Dimension Stability



Arm Table for Schools

SABIC® PS 330 Polystyrene

SOLUTION SUMMARY

- Offers a suitable solution in school furniture by replacing the wood filling
- Impact strength, light weight, and scratch resistance
- SABIC material share of this application is 100%

VALUE PROPOSITION

- Good Mechanical Properties
- Surface Finish
- Sustainable solutions
- Dimension Stability



Arm Table

CYCOLAC™ Resin MG47F

SOLUTION SUMMARY

- Ideal for creating sturdy and long-lasting arm tables
- Excellent impact resistance, rigidity, and dimensional stability
- SABIC material share of this application is 100%

VALUE PROPOSITION

- Higher durability
- Good Mechanical Properties
- Sustainable solutions
- Dimension Stability



Bulk Continuous Fiber (BCF) Yarn for Carpets

SABIC® PA6 S27 Polyamide



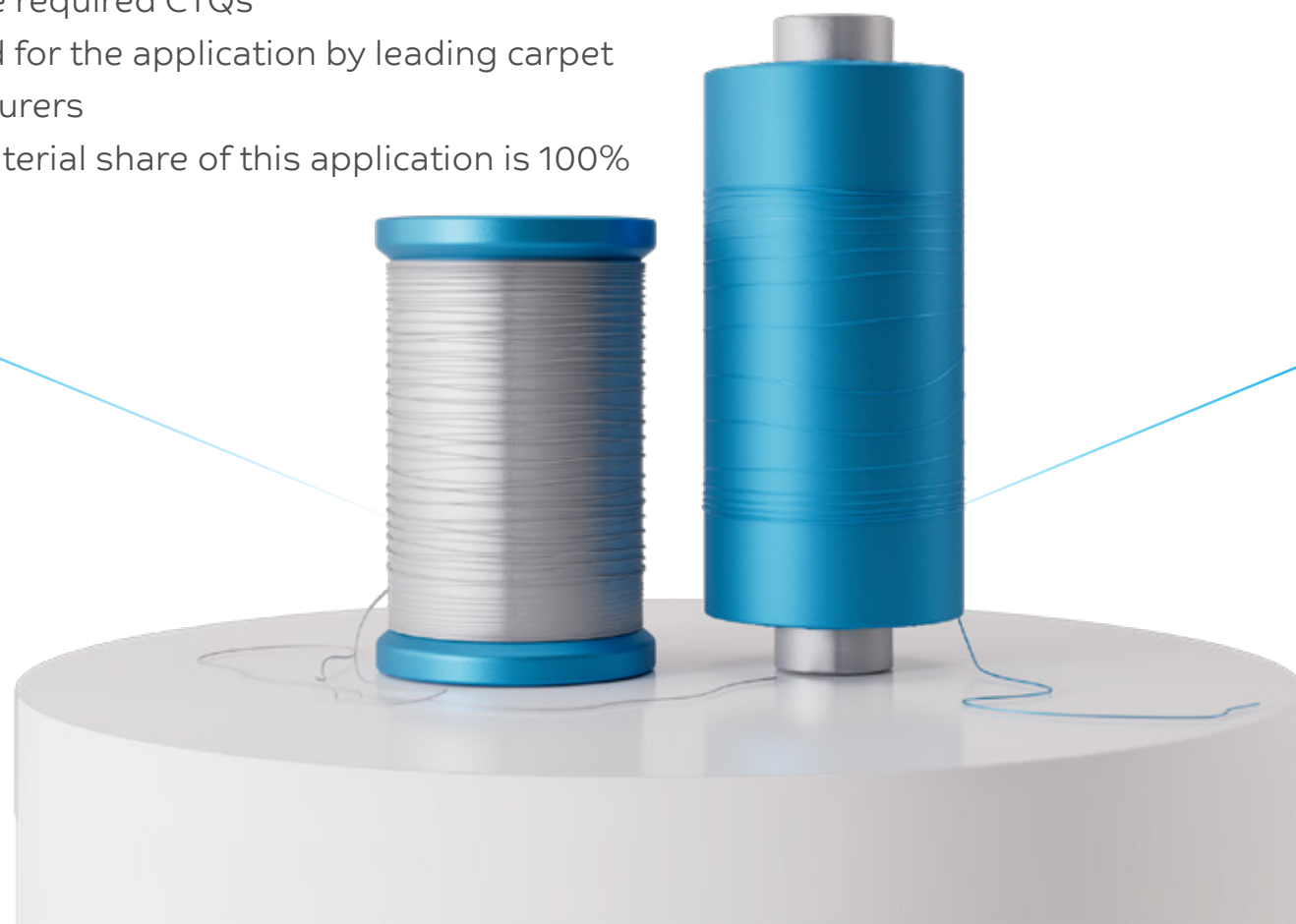
SOLUTION SUMMARY

- Used for Bulk Continuous Filament yarn for institutional carpets
- Superior weatherability, abrasion resistance & excellent dyeability
- Meets the required CTQs
- Approved for the application by leading carpet manufacturers
- SABIC material share of this application is 100%

VALUE PROPOSITION



- Superior weatherability
- Abrasion resistance & Excellent dyeability



Crates and Molded Cases

SABIC® HDPE M200050 Polymer



SOLUTION SUMMARY

- Developed with narrow molecular weight distribution
- Suitable for injection molding applications
- Designed to give good flow properties, low warp age with good dimensional stability and high gloss
- SABIC material share of this application is 100%

VALUE PROPOSITION



- Easy processing
- High rigidity & Good impact strength



Housewares

SABIC® HDPE M40053S Polymer



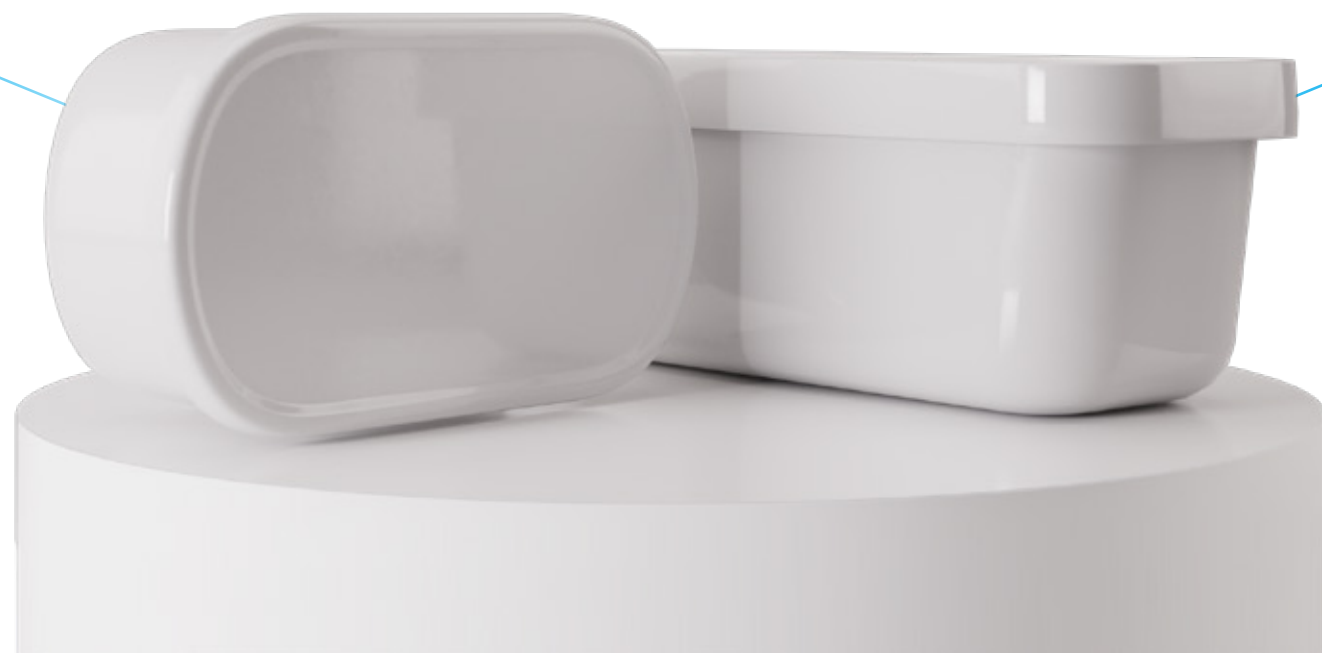
SOLUTION SUMMARY

- UV stabilized grade with narrow molecular weight distribution
- Suitable for injection molding applications
- Provides good balance of stiffness and impact at low temperatures
- SABIC material share of this application is 100%

VALUE PROPOSITION



- Good Impact Resistance
- Good Flow ability & Low Warpage



Household Container

SABIC® HDPE M40055S Polymer



SOLUTION SUMMARY

- Especially developed for injection molding applications
- Provides good balance of stiffness, impact at low temperatures
- UV stability for outdoors applications
- SABIC material share of this application is 100%

VALUE PROPOSITION



- Good Impact Resistance
- Good Flow ability & Good ESCR



Household Container

SABIC® HDPE M40060/S Polymer

SOLUTION SUMMARY

- Designed with narrow molecular weight distribution
- Suitable for injection molding applications
- Gives good rigidity, excellent toughness and low warp age
- Comes also with UV stabilized version
- SABIC material share of this application is 100%

VALUE PROPOSITION

- Good Impact Resistance
- Low Warpage



Foam Roll

SABIC® LDPE HP2024JDF & HP2022NDF Polymers

SOLUTION SUMMARY

- Meets customers' requirements for the foaming extrusion process and their applications
- SABIC material share of this application is 100%

VALUE PROPOSITION

- Good processibility
- Excellent foamability
- High purity
- High Melt strength



Egg Maker Capsule

NORYL™ Resins

SOLUTION SUMMARY

- FDA approved
- Heat and hydrolysis resistance that has passed customer steam tests
- Good strength for mechanical lock design and part durability
- Each part weighs <100 grams

VALUE PROPOSITION

- Food contact approval
- Hydrolysis resistance
- Mechanical strength
- Heat resistance



Large Appliance Control Unit Enclosure

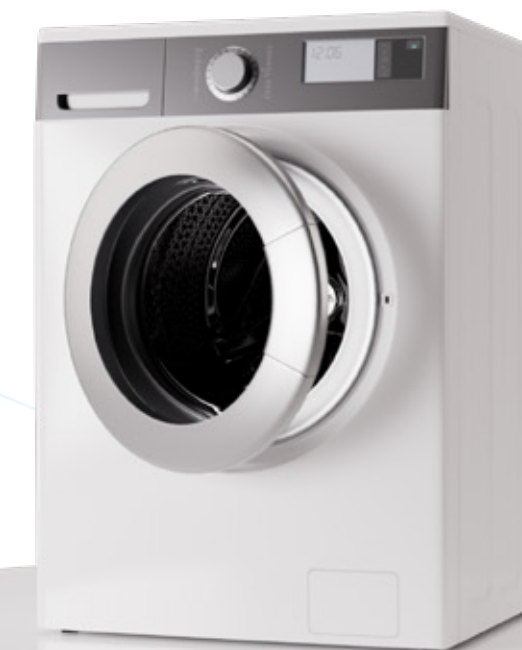
NORYL™ Resins

SOLUTION SUMMARY

- Good balance of heat and electrical performance
- Low warpage and dimensionally stable
- Meets stringent flammability ratings for thin-wall parts
- Each part weighs ~1 kg

VALUE PROPOSITION

- ECO flame retardant
- Dimensional stability
- Low warpage
- Easy processing



Safety Helmet

LNPT™ ELCRES™ Resins



SOLUTION SUMMARY

- Impact strength is a key consideration, passing customer's stringent tests in a broad temperature range
- Other requirements include weatherability for outdoor use and pre-colored
- Each part weighs ~300 grams

VALUE PROPOSITION



- Impact resistance
- Weatherability
- Easy processing
- Colourable



Walkie Talkie Chassis and Housing

LNPT™ ELCRES™ Resins



SOLUTION SUMMARY

- Good mechanical properties
- Can be welded against self and other materials
- Being a hand-held device, used in different environments, it has to be resistant to many chemicals
- Each part weighs ~300 grams

VALUE PROPOSITION



- Chemical resistance
- Impact resistance
- Dimensional stability
- Easy processing



Consumer Luggage

SABIC® PP Compound 88MK40T



SOLUTION SUMMARY

- Very high impact resistance performance
- Low odor to optimize venting process for luggage and suitcase applications
- SABIC material share of this application is 100%



VALUE PROPOSITION



- Weight saving
- Low odor to optimize venting process

Water Hose

SABIC® SPVC 70S Polyvinyl Chloride



SOLUTION SUMMARY

- Used in the production of pipes for water and gas distribution, automotive parts, inflatable boats and rafts, and vinyl records
- Strong, durable, and resistant material
- Can withstand high pressure, extreme temperatures, and harsh environments
- SABIC material share of this application is 60%



VALUE PROPOSITION



- Durability
- Lifetime
- Flexibility
- Mechanical strength

Baby Bottles

SABIC® PP PCGR40 Random Polymer



SOLUTION SUMMARY

- Used for developing a 'clean by manufacturing' baby bottle in different sizes
- No sterilization is needed before use
- High transparency
- Medically and food contact grade approved
- SABIC material share of this application is 100%



VALUE PROPOSITION



- Regulatory Compliance / Organoleptic properties
- Recyclability/ sustainability
- Easy Processing
- Stretch Blow Moulding (good stiffness and stretch)

Housewares, Home Appliance

SABIC® PP 511MK41T Polymer



SOLUTION SUMMARY

- Good surface aesthetics with no visible white spots in color chip
- Lower shrinkage
- Suitable housewares and home appliances
- SABIC material share of this application is 100%



VALUE PROPOSITION



- Good surface aesthetics
- No visible white spots in color chip
- Lower shrinkage gap
- Less warpage

Nano Molding Technology Solution for Smart Watch Middle Frame

LNPT™ THERMOCOMP™ Compounds



SOLUTION SUMMARY

- Can be injected into metal surface which has been treated with a special chemical solution, replacing the traditional processes
- Material toughness with good chemical resistance are needed for wearables
- Each part weighs <100 grams

VALUE PROPOSITION



- Chemical resistance
- Impact resistance
- Dimensional stability
- Easy processing



Sweeping Robot Duster Cloth Holder

LNPT™ ELCRES™ Resins



SOLUTION SUMMARY

- This tough material passed customer's drop tests
- Provides air-tightness for improved efficiency
- Excellent chemical resistance reduces risk of cracking during use
- Each part weighs <100 grams

VALUE PROPOSITION



- Low temperature impact resistance
- High stiffness
- Chemical resistance
- Easy processing



Eye Robot Side Housing

LNPT™ ELCRES™ Resins



SOLUTION SUMMARY

- Flame resistance required for this appliance part
- Transparent, allows infrared light transmission for functionality
- Good impact performance is required for prolonged part life
- Each part weighs ~100 grams

VALUE PROPOSITION



- ECO flame retardant
- Transparent
- Easy processing
- Impact resistance



Hair Dryer Body

ULTEM™ Resins



SOLUTION SUMMARY

- Good heat resistance helps customer simplify inner electronic designs
- Appealing aesthetics and colorable, material passed customer's drop tests
- Flame resistance needed for this appliance part
- Each part weighs ~150 grams

VALUE PROPOSITION



- Heat resistance
- Inherent flame retardant
- Dimensional stability
- Good mechanical properties



Transparent Jugs

SABIC®PMMA 60MS Acrylic



SOLUTION SUMMARY

- Special medium flow PMMA grade
- Suitable for injection molding
- Has exceptional transparency and gloss for thick items
- Ease of processing
- Suitable for homeware applications, such as jugs
- SABIC material share of this application is 100%



VALUE PROPOSITION



- Balanced Melt Strength & Viscosity
- High Light Transmission
- Better Weathering & UV Resistance
- Easy Processing

Sustainability Solution for Diving Suit Valve

LNP™ ELCRIN™ Compounds

SOLUTION SUMMARY

- Sustainability grade for carbon footprint reduction
- Able to replace existing material without costs of new tools and can be pre-colored
- Resistant to sea water and cleaning chemicals
- Each part weighs <100 grams



VALUE PROPOSITION

- Sustainability
- Chemical resistance
- Impact resistance
- Colorable

Jewel Boxes, Watch Boxes, Gift Boxes, Containers

SABIC® PS 125 Polystyrene



SOLUTION SUMMARY

- Suitable for different injection molding applications, such as jewelry and gift boxes, tumblers, containers, etc.
- Medium flow and high clarity
- SABIC material share of this application is 100%

VALUE PROPOSITION



- Transparency
- Availability, Lower lead time
- Compliance with Food safety
- Excellent processability

