Resirene

Custom Solutions, **Solid Partnerships**

Polystyrene Solutions

High-Impact Polystyrene (HISP)

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Stiffness, stability and ductility

Resirene® Impact Polystyrene resins (HIPS) cover a wide range of applications, from those demanding stiffness and dimensional stability, to those requiring flexibility and ductility.

The variety of grades offered by Resirene® satisfactorily covers the requirements of extrusion, thermoforming and injection molding processes, guaranteeing performance and productivity.

Our Impact Polystyrene resins also comply with international regulations that ensure their innocuousness when they come in contact with food, either briefly or for a long exposure times.

Impact Polystyrene product range

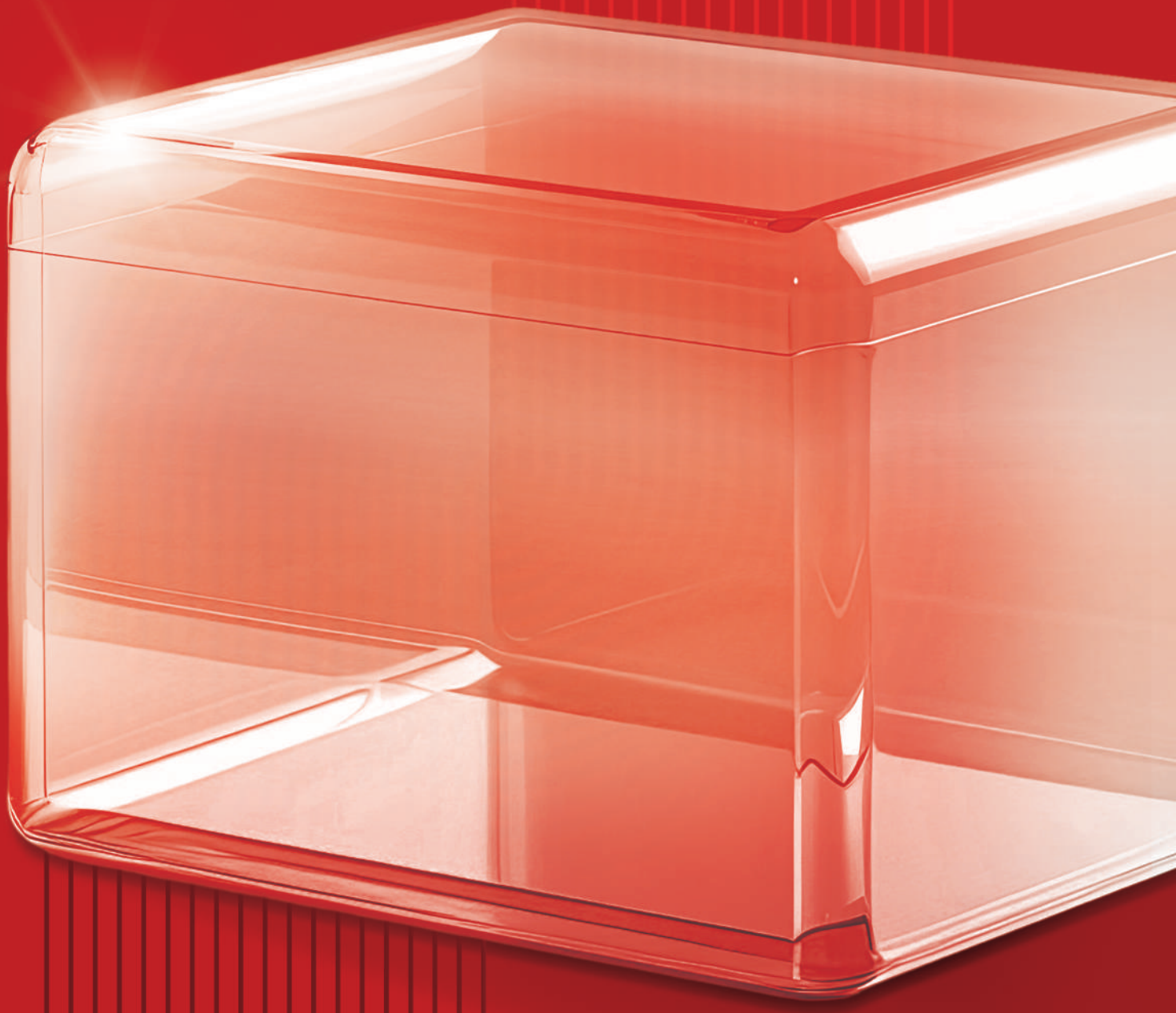
HIGH VISCOSITY

Grade	Melt Flow Index (200°C/5 kg) g/10 min	Notched Izod Impact	Main features	Applications
Resirene® 6420	3	2.2 lbf-fi/in (117 J/m)	High viscosity, high impact	- Sheet and profile extrusion - Deep-draw thermoforming - GPPS/HIPS blends
Resirene® 6470	3	2.4 lbf-ft/in (128 J/m)	High viscosity, high impact	

MEDIUM VISCOSITY

Grade	Melt Flow Index (200°C/5 kg) g/10 min	Notched Izod Impact	Main features	Applications
Resirene® 2210	16	1.8 lbf-ft/in (96 J/m)	Very high flow, high productivity	- Multi-cavity tools - Thin-walled parts
Resirene® 4220	8	2.0 lbf-ft/in (107 J/m)	Medium flow, high impact	- Electronics housings General purpose
Resirene® 6110	10	2.2 lbf-ft/in (117 J/m)	High flow, high impact	- Multi-cavity tools - Electronics housings
Resirene® 7600	5	2.0 lbf-ft/in (107 J/m)	Medium flow, high stiffness	- Electronics housings

Crystal Polystyrene (GPPS)



Crystal Polystyrene (GPPS)

For all variety of processes and applications

Resirene® Crystal Polystyrene resins (GPPS) offer versatility, hygiene and reliability in their handling and use, for either technical or food-contact applications.

From relatively simple to complex applications, our Crystal Polystyrene grades efficiently meet the requirements of the conversion processes, the quality parameters of the finished parts, meanwhile complying with applicable international regulations that ensure their innocuity when they come in contact with food, either for short or long exposure times.

Crystal Polystyrene product range

Resirene

HIGH VISCOSITY

Grade	Melt Flow Index (200°C/5 kg) g/10 min	HDT @ 264 psi (unannealed)	Main features	Aplicaciones
Resirene® HH103	1.8	91°C (196°F)	High viscosity, Heat resistance, Mechanical strength	- Foamed trays - Thermoforming - GPPS/HIPS blends
Resirene® HH103 FB	1.5	92°C (198°F)	Very high viscosity, high molecular weight, mechanical strength	Foamed trays
Resirene® HH104	4.0	87°C (189°F)	Medium viscosity, heat resistance, mechanical strength	- Thin-walled parts - School and office supplies
Resirene® HH108	2.5	89°C (192°F)	Oil and zinc-free, medium viscosity, easy to process	- Extruded foam (XPS) - Thin-walled parts

MEDIUM VISCOSITY

Grade	Melt Flow Index (200°C/5 kg) g/10 min	HDT @ 264 psi (unannealed)	Main features	Applications
Resirene® HF555	16	74°C (165°F)	Very high flow, high productivity, easy to process	- Multi-cavity tools - Coextrusion (gloss layer) - General purpose
Resirene® HF770	8	85°C (185°F)	Oil and zinc-free, high flow, easy to process	- Extruded foam (XPS) - Compounding
Resirene® HF777	8	75°C (167°F)	High flow, easy to process	Multi-cavity tools - GPPS/HIPS blends - General purpose

Micropellet

Our **Microgranulated polystyrene** was developed to diversify our product portfolio and to generate applications according to market trends. It is intended for long-lasting applications such as technical compounds and color concentrates as well as for the concrete fillers and lighteners market and for the construction industry.

Grade	Melt Flow Index (200°C/5 kg) g/10 min	Density g/cm3	Particle Size (Granulometric Analysis)	Applications
MG 777-25	9	1.04	90% sieve retention 0.6 a 0.85	- Compounds - Vehicles for color concentrates
MG 770-18	9	1.04	90% sieve retention 16-18-20	- Lighteners and fillers for construction

Transparent copolymers

Resirene's family of transparent resins CET® is designed using a styrene-acrylic copolymer base (SMMA). These copolymers offer an excellent balance from their individual components benefits: the versatility and ease of processing of styrenic polymers along with sparkling clarity from acrylics.

Product series

SMMA COPOLYMERS

Grade	Melt Flow Index (200°C/5 kg) g/10 min	Break @ elongation	Tensile strength @ Break	Light transmittance	Applications
CET® 116	3	3%	8.0 kpsi (55MPa)	92%	- Household items - Cosmetic packaging - Medical applications
CET® 123	3	2%	8.6 kpsi (59 MPa)	92%	

Polystyrene with recycled content

Advanced Recycling Process of Polystyrene (PAR-PS)

- Post-Consumer Polystyrene (PCPS)
- Solvent-based purification and polymerization
- Advantages:
  - -Capacity for removing contaminants
  - -Control of mechanical properties regardless of PCPS quality
  - -Quality and Performance similar to virgin resin
  - -Reduced environmental footprint

Commercial grades:
Q-rPS® 25

- Crystal polystyrene (GPPS) with 25% recycled content
- Aligned with targets in Mexico's General Law of Circular Economy
- Low flow, suitable for extrusion and thermoforming applications
- Medium flow for injection molding applications

Grade	Flow (200°C/5.0 kg) g/10 min	Elongation @ break	Strain @ break	Processability	Markets
Q-rPS25 25% de PS Post-Consumer	3.6	6.5%	6700 psi (46 MPa)	Foamed	- Picture frames
Q-rPS25 Injection 25% de PS Post-Consumer	10	6.5%	6000 psi (46 MPa)	Injection molding	- Base resin for pigmented parts

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DESC 50 YEARS CREATING VALUE

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