

Total PSI 8350 (AS) High Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Total Petrochemicals Polystyrene 8350 (AS) is a very high impact polystyrene for extrusion and injection molding. This grade has improved environmental stress crack resistance in comparison with standard high impact grades. Total Petrochemicals Polystyrene 8350 (AS) retains good mechanical properties at low temperatures making it suitable for frozen packaging. It receives printing well. Suitable applications for Total Petrochemicals Polystyrene 8350 (AS) includes production of packaging intended for products likely to cause stress cracking. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PSI-8350-AS-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	5.0 g/10 min @Load 5.00 kg, Temperature 200 °C	5.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238
Spiral Flow	45.0 cm @Temperature 220 °C	17.7 in @Temperature 428 °F	ASTM D3123

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	78	78	ASTM D785
Tensile Strength at Break	24.0 MPa	3480 psi	ASTM D638
Tensile Strength, Yield	26.0 MPa	3770 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Tensile Modulus	1.60 GPa	232 ksi	ASTM D638
Flexural Modulus	1.70 GPa	247 ksi	ASTM D790
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	91.0 µm/m-°C	50.6 µin/in-°F	ASTM D696
Vicat Softening Point	96.0 °C	205 °F	50°C per hour; ASTM D1525

Thermal Properties	@Load 1.02 kg Metric	@Load 2.25 lb English	Comments
Heat Distortion Temperature	80.0 °C	176 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00 \times 10^{13}$ ohm	$\geq 1.00 \times 10^{13}$ ohm	ISO IEC 93
Dielectric Strength	150 kV/mm	3810 kV/in	ASTM D149

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