

Total PSI 8350 High Impact Polystyrene

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

Material Notes:

8350 is a very high impact polystyrene for extrusion. This grade has an improved environmental stress crack resistance in comparison with standard high impact grades. It is proposed for the production of packaging intended for products likely to cause stress cracking, e.g. fats and oils. LACQRENE® 8350 retains good mechanical properties at low temperatures making this grade suitable for frozen packaging and for the production of fridge liners. Application Sheet for thermoforming and high quality printing, Cabinet and door liners for fridges, Packaging for use at low temperatures, Packaging for aggressive foodstuffs. Information provided provided by Total Petrochemicals. Total Petrochemicals acquired former Fina and Atofina plastics product lines. This product was previously known as LACQRENE®

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	4.5 g/10 min @Load 5.00 kg, Temperature 200 °C	4.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133H

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	54	54	ISO 2039-2
Tensile Strength at Break	20.0 MPa	2900 psi	ISO 527-2
Tensile Strength, Yield	18.0 MPa	2610 psi	ISO 527-2
Elongation at Break	60 %	60 %	ISO 527-2
Tensile Modulus	1.60 GPa	232 ksi	ISO 527-2
Flexural Modulus	1.60 GPa	232 ksi	ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	91.0 µm/m-°C @Temperature 20.0 °C	50.6 µin/in-°F @Temperature 68.0 °F	

Thermal Properties <small>(all psi)</small>	Metric	English	Comments
Deflection Temperature at 0.46 MPa	87.0 °C	189 °F	Annealed; ISO 75-2A
Deflection Temperature at 1.8 MPa (264 psi)	73.0 °C	163 °F	Unannealed; ISO 75-2A
Vicat Softening Point	84.0 °C	183 °F	50N (T° increase = 5°C/h); ISO 306B50
	96.0 °C	205 °F	10N (T° increase = 50°C/h); ISO 306A50

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	>= 1.00e+13 ohm	>= 1.00e+13 ohm	ISO IEC93
Dielectric Strength	150 kV/mm	3810 kV/in	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China