

Total PSI 3630 Medium Impact Polystyrene

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

Material Notes:

3630 is an easy flowing, medium impact polystyrene for injection molding. This grade offers a good compromise of flow and softening point allowing for the production of large and complex articles at good cycle times. The ease of coloration and good surface finish of this grade give a wide range of applications. Application Individual ice cream pots, Flower pots, Office equipment, Shoe heels, Assorted boxes, Bathroom accessories. 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-3630-Medium-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 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	15 g/10 min @Load 5.00 kg, Temperature 200 °C	15 g/10 min @Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	84	84	ISO 2039-2
Tensile Strength at Break	25.0 MPa	3630 psi	ISO 527-2
Tensile Strength, Yield	32.0 MPa	4640 psi	ISO 527-2
Elongation at Break	30 %	30 %	ISO 527-2
Tensile Modulus	2.30 GPa	334 ksi	ISO 527-2
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	
Charpy Impact, Notched	0.600 J/cm ²	2.86 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	
Vicat Softening Point	81.0 °C	178 °F	50N (T° increase = 5°C/h); ISO 306B50

Thermal Properties	Metric	English	Comments
	300°C	100°F	Heat release = 50°C/h); ISO 566A50

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