

Total PSC 1540(EU) Crystal Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Transparent Grade

Material Notes:

1540 is an easy flowing crystal polystyrene designed for extrusion or injection applications. In extrusion, it improves extruder output and thermoforming cycle times when mixed with a high impact polystyrene such as LACQRENE® 7240. Having high gloss, it is particularly suitable for glossy-layer co-extrusion. In injection molding, 1541 possesses low viscosity at high shear rate. It does combine excellent fluidity with a higher softening point than 1810/1811. Application Dairy sheet, Cups, Coextrusion crystal, Boxes, Petra dishes, Medical products, Office equipment - e.g. filling trays, CD boxes, Pen bodies, Internal fridge parts. Information 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-PSC-1540EU-Crystal-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	12 g/10 min @Load 5.00 kg, Temperature 200 °C	12 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133H

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	70	70	ISO 2039-2
Tensile Strength at Break	42.0 MPa	6090 psi	ISO 527-2
Elongation at Break	2.0 %	2.0 %	ISO 527-2
Tensile Modulus	3.10 GPa	450 ksi	ISO 527-2
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Charpy Impact Unnotched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	71.0 µm/m-°C @Temperature 20.0 °C	39.4 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	83.0 °C	181 °F	Annealed; ISO 75-2A

Deflection Temperature at 1.8 MPa (180 psi) Thermal Properties	73.0 °C Metric	163 °F English	Unannealed; ISO 75-2A Comments
Vicat Softening Point	86.0 °C	187 °F	50N (T° increase = 5°C/h); ISO 306B50
	91.0 °C	196 °F	10N (T° increase = 50°C/h); ISO 306A50

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	>= 1.00e+14 ohm	>= 1.00e+14 ohm	ISO IEC93
Dielectric Strength	135 kV/mm	3430 kV/in	

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