

Total PSC 1540(AS) 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. Having high gloss, it is particularly suitable for glossy-layer co-extrusion. In injection molding, 1541 possesses low viscosity at high shear rate. It combines excellent fluidity with a higher softening point. 1540 is not externally lubricated. Application Dairy sheet, Cups, Coextrusion crystal. 1541 Extrusion: Boxes, Petri dishes, medical products, Office equipment - e.g. filing trays, Pen bodies and toys, Internal fridge parts. 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-PSC-1540AS-Crystal-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D1505
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	ASTM D1238G

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	41.2 MPa	5970 psi	ASTM D638M
Elongation at Break	2.0 %	2.0 %	ASTM D638M
Flexural Yield Strength	7.35 MPa	1070 psi	ASTM D790
Flexural Modulus	2.84 GPa	412 ksi	ASTM D790
Izod Impact, Notched	0.216 J/cm	0.404 ft-lb/in	Notched/Unnotched not specified; ASTM D256A

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 1.8 MPa (264 psi)	71.0 °C	160 °F	ASTM D648
Vicat Softening Point	86.0 °C	187 °F	50N (T° increase = 5°C/h); ASTM D1525B
	91.0 °C	196 °F	10N (T° increase = 50°C/h); ASTM D1525A

Flammability UL 94 Thermal Properties	HB Metric	HB English	Comments
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	
Processing Properties	Metric	English	Comments
Melt Temperature	200 - 240 °C	392 - 464 °F	
Drying Temperature	70.0 °C	158 °F	Pre drying temperature
Dry Time	2 hour	2 hour	

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