

Total PS CPDS 863 High Flow Flame Retardant Deca Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Flame Retardant

Material Notes:

Total Petrochemicals Polystyrene 863 is a high flow, heat resistant, high impact polystyrene for injection molding. It is recommended for the manufacturing of articles which require good dimensional stability. Suitable Applications for Total Petrochemicals Polystyrene 863 includes TV covers. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PS-CPDS-863-High-Flow-Flame-Retardant-Deca-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Water Absorption	0.070 %	0.070 %	ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	10 g/10 min @Load 5.00 kg, Temperature 200 °C	10 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238
Spiral Flow	56.0 cm @Temperature 220 °C	22.0 in @Temperature 428 °F	ASTM D3123

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ASTM D785
Tensile Strength at Break	28.0 MPa	4060 psi	ASTM D638
Tensile Strength, Yield	25.0 MPa	3630 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Tensile Modulus	1.90 GPa	276 ksi	ASTM D638
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	89.0 µm/m-°C	49.4 µin/in-°F	ASTM D696
Vicat Softening Point	92.0 °C @Load 1.02 kg	198 °F @Load 2.25 lb	50°C per hour; ASTM D1525
Heat Distortion Temperature	>= 78.9 °C	>= 174 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 2.10 mm	@Thickness 0.0827 in	

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	160 kV/mm	4060 kV/in	ASTM D149

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