

Total PS CPDS 801 Flame Retardant Polystyrene

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

Material Notes:

POLYSTYRENE (PS) COMPOUND (CPDS) 801 is a high impact brominated flame retardant polystyrene for use in injection molding and extrusion/thermoforming. PS CPDS 801 can be supplied in both natural and colored forms. Main Characteristics: DBDPE free, Excellent UV stability, UL94 V0 @ 1.6 mm and UL94 5VB @ 2.5 mm. Applications: Electrical equipment housings, TV covers, office automation, housings for Potential Ignition Sources (PIS). Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PS-CPDS-801-Flame-Retardant-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	<= 1.13 g/cc	<= 1.13 g/cc	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	5.0 g/10 min @Load 5.00 kg, Temperature 200 °C	5.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133H

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	19.0 MPa	2760 psi	ISO 527-2
Tensile Strength, Yield	24.0 MPa	3480 psi	ISO 527-2
Elongation at Break	40 %	40 %	ISO 527-2
Flexural Modulus	2.30 GPa	334 ksi	ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m²	3.81 ft-lb/in²	180/1A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	87.0 °C @Load 5.10 kg	189 °F @Load 11.2 lb	50°C per hour; ISO 306B50
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	All colors
	5VB @Thickness 2.50 mm	5VB @Thickness 0.0984 in	Non colored

Processing Properties	Metric	English	Comments
Melt Temperature	<= 260 °C	<= 500 °F	

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