

Total PS CPDS 856 Flame Retardant Polystyrene

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

Material Notes:

POLYSTYRENE (PS) COMPOUND (CPDS) 856 is a high impact halogen free polystyrene which offers a good balance of rheological and mechanical properties. Main Characteristics: Bromine and Chlorine free, UL94 V0 @ 3.0 mm, Good UV stability. Applications: Covers for electrical equipment, TV covers, office automation. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PS-CPDS-856-Flame-Retardant-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	<= 1.10 g/cc	<= 1.10 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	4.0 g/10 min	4.0 g/10 min	ISO 1133H
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	12 g/10 min	12 g/10 min	ISO 1133H
	@Load 10.0 kg, Temperature 200 °C	@Load 22.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.0 MPa	5080 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)	7.00 kJ/m ²	3.33 ft-lb/in ²	180/1A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	81.0 °C	178 °F	50°C per hour; ISO 306B50
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	V-0	V-0	All colors
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Melt Temperature	<= 300 °C	<= 572 °F	

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