

Total PS CPDS 820 Flame Retardant Polystyrene

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

Material Notes:

POLYSTYRENE (PS) COMPOUND (CPDS) 820 is a high impact brominated flame retardant polystyrene. A combination of high flow and high heat stability gives excellent processability and reduced cycle times. PS CPDS 820 can be supplied in both natural and colored forms. Main Characteristics: DBDPE free, Excellent UV stability, High flow, high heat stability, UL94 V2 @ 1.6 mm. Applications: Covers for electrical equipment, toner cartridges, internal enclosures for office automation. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PS-CPDS-820-Flame-Retardant-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	ISO 62
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	
Melt Flow	14 g/10 min @Load 5.00 kg, Temperature 200 °C	14 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133H

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	18.0 MPa	2610 psi	ISO 527-2
Tensile Strength, Yield	24.0 MPa	3480 psi	ISO 527-2
Elongation at Break	45 %	45 %	ISO 527-2
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
Izod Impact, Notched (ISO)	7.50 kJ/m ²	3.57 ft-lb/in ²	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-2 @Thickness 1.50 mm	V-2 @Thickness 0.0591 in	All colors

Processing Properties	Metric	English	Comments
Melt Temperature	<= 240 °C	<= 464 °F	

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