

Total PS CPDS 850S Chlorine and Bromine Free Flame Retardant High Impact Polystyrene

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

Material Notes:

Total Petrochemicals Polystyrene 850S is a chlorine and bromine free flame retardant high impact polystyrene with excellent thermal stability and processability for injection molding. Suitable Applications for Total Petrochemicals Polystyrene 850S include TV covers, Decoders, Hi-Fi and Internal parts for office equipment. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PS-CPDS-850S-Chlorine-and-Bromine-Free-Flame-Retardant-High-Impact-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 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	3.0 g/10 min @Load 5.00 kg, Temperature 200 °C	3.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238
Spiral Flow	34.0 cm @Temperature 220 °C	13.4 in @Temperature 428 °F	ASTM D3123
	53.0 cm @Temperature 260 °C	20.9 in @Temperature 500 °F	ASTM D3123

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	102	102	ASTM D785
Tensile Strength at Break	42.0 MPa	6090 psi	ASTM D638
Tensile Strength, Yield	40.0 MPa	5800 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Tensile Modulus	2.40 GPa	348 ksi	ASTM D638
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790
Izod Impact, Notched (ISO)	6.50 kJ/m ²	3.09 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	91.0 µm/m-°C	50.6 µin/in-°F	ASTM D696

Thermal Properties	Metric	English	Comments
Vicat Softening Point			50°C per hour; ASTM D1525
	@Load 1.02 kg	@Load 2.25 lb	
Heat Distortion Temperature	>= 85.0 °C	>= 185 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 2.50 mm	@Thickness 0.0984 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+13 ohm	>= 1.00e+13 ohm	ISO IEC 93
Dielectric Strength	160 kV/mm	4060 kV/in	ASTM D149

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