

## Total PS CPDS 853 Flame Retardant Polystyrene

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

**Material Notes:**

POLYSTYRENE (PS) COMPOUND (CPDS) 853 is a high impact, high stiffness halogen free flame retardant polystyrene. Main

Characteristics: Bromine and Chlorine free, UL94 V2 @ 1.6 mm with very low combustion time, Good flow and UV properties. 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-853-Flame-Retardant-Polystyrene.php](http://www.lookpolymers.com/polymer_Total-PS-CPDS-853-Flame-Retardant-Polystyrene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 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, Yield	32.0 MPa	4640 psi	ISO 527-2
Elongation at Break	40 %	40 %	ISO 527-2
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	180/1A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	81.0 °C @Load 5.10 kg	178 °F @Load 11.2 lb	50°C per hour; ISO 306B50
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	All colors

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

## Contact Songhan Plastic Technology Co.,Ltd.

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