

## Total PS CPDS 856S Chlorine and Bromine Free Flame Retardant High Impact Polystyrene

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

### Material Notes:

Total Petrochemicals Polystyrene 856S 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-856S-Chlorine-and-Bromine-Free-Flame-Retardant-High-Impact-Polystyrene.php](http://www.lookpolymers.com/polymer_Total-PS-CPDS-856S-Chlorine-and-Bromine-Free-Flame-Retardant-High-Impact-Polystyrene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Water Absorption	0.070 %	0.070 %	ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 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	35.0 cm @Temperature 220 °C	13.8 in @Temperature 428 °F	ASTM D3123
	52.0 cm @Temperature 260 °C	20.5 in @Temperature 500 °F	ASTM D3123

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D785
Tensile Strength at Break	36.0 MPa	5220 psi	ASTM D638
Tensile Strength, Yield	35.0 MPa	5080 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	ASTM D638
Flexural Modulus	2.30 GPa	334 ksi	ASTM D790
Izod Impact, Notched (ISO)	6.50 kJ/m <sup>2</sup>	3.09 ft-lb/in <sup>2</sup>	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	@Load 1.02 kg	@Load 2.25 lb	50°C per hour; ASTM D1525
Heat Distortion Temperature	>= 82.2 °C	>= 180 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 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

## Contact Songhan Plastic Technology Co.,Ltd.

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