

## Total PS CPDS 815 High Flow, Non-Deca Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

### Material Notes:

Total Petrochemicals Polystyrene 815 is a high heat resistant, high impact Polystyrene for injection molding. It is recommended for the manufacturing of articles which require good dimensional stability. Suitable Applications for Total Petrochemicals Polystyrene 815 include TV covers. Information provided by Total Petrochemicals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Total-PS-CPDS-815-High-Flow-Non-Deca-Polystyrene.php](http://www.lookpolymers.com/polymer_Total-PS-CPDS-815-High-Flow-Non-Deca-Polystyrene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 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	11 g/10 min @Load 5.00 kg, Temperature 200 °C	11 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238
Spiral Flow	62.0 cm @Temperature 220 °C	24.4 in @Temperature 428 °F	ASTM D3123

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	93	93	ASTM D785
Tensile Strength at Break	22.0 MPa	3190 psi	ASTM D638
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Tensile Modulus	1.80 GPa	261 ksi	ASTM D638
Flexural Modulus	1.80 GPa	261 ksi	ASTM D790
Izod Impact, Notched (ISO)	8.00 kJ/m <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	89.0 µm/m-°C	49.4 µin/in-°F	ASTM D696
Vicat Softening Point	90.0 °C @Load 1.02 kg	194 °F @Load 2.25 lb	50°C per hour; ASTM D1525
Heat Distortion Temperature	>= 78.9 °C	>= 174 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 2.10 mm	@Thickness 0.0827 in	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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