

Total PS CPDS 822 Standard Flow, Non-Deca Polystyrene

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

Material Notes:

Total Petrochemicals Polystyrene 822 is a good flow, environmentally friendly 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 822 include Audio, Video and electrical applications. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PS-CPDS-822-Standard-Flow-Non-Deca-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Water Absorption	0.060 %	0.060 %	ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955
Melt Flow	8.0 g/10 min @Load 5.00 kg, Temperature 200 °C	8.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238
Spiral Flow	55.0 cm @Temperature 220 °C	21.7 in @Temperature 428 °F	ASTM D3123

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	91	91	ASTM D785
Tensile Strength at Break	24.0 MPa	3480 psi	ASTM D638
Tensile Strength, Yield	26.0 MPa	3770 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Tensile Modulus	2.00 GPa	290 ksi	ASTM D638
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM D696
Vicat Softening Point	95.0 °C @Load 1.02 kg	203 °F @Load 2.25 lb	50°C per hour; ASTM D1525
Heat Distortion Temperature	>= 82.8 °C	>= 181 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00 \times 10^{13}$ ohm	$\geq 1.00 \times 10^{13}$ ohm	ISO IEC 93
Dielectric Strength	160 kV/mm	4060 kV/in	ASTM D149

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