

Total PS CPDS 818R Flame Retardant Polystyrene

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Flame Retardant

Material Notes:

POLYSTYRENE (PS) COMPOUND (CPDS) 818R is a high impact brominated flame retardant polystyrene. A combination of high flow and high heat stability gives excellent processability and reduced cycle times. PS CPDS 818R contains a significant level of recycled PS, collected according to the WEEE EU directive, and therefore reduces environmental impact via reduced CO2 emissions and reduced energy and water consumption. Main Characteristics: Compliant with the European ECOLABEL (2009/300/EC) Contains post consumer recycled polystyrene DBDPE free, UL94 V0 A 1.6 mm, High flow, high heat and excellent UV stability. Applications: Cover 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-818R-Flame-Retardant-Polystyrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	<= 1.13 g/cc	<= 1.13 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	10 g/10 min @Load 5.00 kg, Temperature 200 °C	10 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133H

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.0 MPa	3630 psi	ISO 527-2
Elongation at Break	40 %	40 %	ISO 527-2
Flexural Modulus	2.30 GPa	334 ksi	ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	180/1A

Thermal Properties	Metric	English	Comments
Vicat Softening Point	85.0 °C @Load 5.10 kg	185 °F @Load 11.2 lb	50°C per hour; ISO 306B50
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	Black

Processing Properties	Metric	English	Comments
Melt Temperature	<= 260 °C	<= 500 °F	

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