

Total PS CPDS FT876 Flame Retardant Polystyrene

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

Material Notes:

POLYSTYRENE (PS) COMPOUND (CPDS) FT876 is a high impact, halogen free flame retardant polystyrene with good thermal stability and processability. Main Characteristics: Bromine and Chlorine free, UL94 V0 @ 2.5 mm, High heat and good thermal and UV stability. Applications: Television covers, Decoders, Hi-Fi, Office automation. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PS-CPDS-FT876-Flame-Retardant-Polystyrene.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|-----------|
| Specific Gravity | 1.10 g/cc | 1.10 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 | 3.0 g/10 min @Load 5.00 kg, Temperature 200 °C | 3.0 g/10 min @Load 11.0 lb, Temperature 392 °F | ISO 1133H |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|-----------|
| Tensile Strength at Break | 40.0 MPa | 5800 psi | ISO 527-2 |
| Tensile Strength, Yield | 30.0 MPa | 4350 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) | 6.00 kJ/m ² | 2.86 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 2.50 mm | V-0 @Thickness 0.0984 in | Black and Gray |

| Processing Properties | Metric | English | Comments |
|-----------------------|-----------|-----------|----------|
| Melt Temperature | <= 280 °C | <= 536 °F | |

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