

Supreme Petrochem SP 6411 1924 Light Stabilized Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

Characteristics Prevents dust patterns due to static charges High gloss Good flow Improved light fastness Processing Injection molding Extrusion Applications A/C and cooler grill Material Status: Commercial : Active Agency Ratings: Information provided by Supreme Petrochem LTD

Order this product through the following link:

http://www.lookpolymers.com/polymer_Supreme-Petrochem-SP-6411-1924-Light-Stabilized-Polystyrene.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|------------|
| Specific Gravity | 1.03 g/cc | 1.03 g/cc | ASTM D792 |
| Melt Flow | 8.0 g/10 min @Load 5.00 kg, Temperature 200 Å°C | 8.0 g/10 min @Load 11.0 lb, Temperature 392 Å°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------------------------------|--------------------------------------|----------------------|
| Tensile Strength at Break | 27.0 MPa | 3920 psi | 50 mm/min; ASTM D638 |
| Elongation at Break | 40 % | 40 % | 50 mm/min; ASTM D638 |
| Flexural Strength | 44.1 MPa @Thickness 3.20 mm | 6400 psi @Thickness 0.126 in | ASTM D790 |
| Flexural Modulus | 2.06 GPa @Thickness 3.20 mm | 299 ksi @Thickness 0.126 in | ASTM D790 |
| Izod Impact, Notched | 0.600 J/cm @Thickness 3.20 mm | 1.12 ft-lb/in @Thickness 0.126 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------|----------------------------|--------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 77.0 Å°C | 171 Å°F | ASTM D648 |
| Vicat Softening Point | 96.0 Å°C | 205 Å°F | 1kg / 120Å°C; ASTM D1525 |
| Flammability, UL94 | HB @Thickness 1.60 mm | HB @Thickness 0.0630 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-------------------------|-------------------------|-----------|
| Surface Resistance | 1.00e+12 - 1.00e+13 ohm | 1.00e+12 - 1.00e+13 ohm | ASTM D257 |

| Processing Properties | Metric | English | Comments |
|-----------------------|-------------------------------------|-------------------------------------|---------------------------|
| Melt Temperature | $\leq 230 \text{ }^{\circ}\text{C}$ | $\leq 446 \text{ }^{\circ}\text{F}$ | |
| Mold Temperature | 40.0 - 60.0 $^{\circ}\text{C}$ | 104 - 140 $^{\circ}\text{F}$ | |
| Drying Temperature | 60.0 - 80.0 $^{\circ}\text{C}$ | 140 - 176 $^{\circ}\text{F}$ | (2 hrs) Pre drying temp. |

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