

Supreme Petrochem SH 03 High Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Characteristics High flow Good melt strength Excellent toughness Processing MoldingApplications Gas assisted injection molding of T.V. cabinets Suitable for thin walled parts, AC grills and toys Base material for compoundingMaterial Status: Commercial : ActiveAgency Ratings: FDA 21 CFR 177.1640, UL file E185934Information provided by Supreme Petrochem LTD

Order this product through the following link:

http://www.lookpolymers.com/polymer_Supreme-Petrochem-SH-03-High-Impact-Polystyrene.php

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

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---------------------------------|--------------------------------------|----------------------|
| Tensile Strength at Break | 21.6 MPa | 3130 psi | 50 mm/min; ASTM D638 |
| Elongation at Break | 50 % | 50 % | 50 mm/min; ASTM D638 |
| Flexural Strength | 36.3 MPa @Thickness 3.20 mm | 5260 psi @Thickness 0.126 in | ASTM D790 |
| Flexural Modulus | 1.77 GPa @Thickness 3.20 mm | 256 ksi @Thickness 0.126 in | ASTM D790 |
| Izod Impact, Notched | 1.00 J/cm @Thickness 3.20 mm | 1.87 ft-lb/in @Thickness 0.126 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------|----------------------------|--------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 76.0 Â°C | 169 Â°F | ASTM D648 |
| Vicat Softening Point | 97.0 Â°C | 207 Â°F | 1kg / 120Â°C; ASTM D1525 |
| Flammability, UL94 | HB @Thickness 1.60 mm | HB @Thickness 0.0630 in | |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------|---------------|----------|
| Melt Temperature | 180 - 260 Â°C | 356 - 500 Â°F | |

| Mold Temperature Processing Properties | 40.0 - 60.0 A°C Metric | 104 - 140 A°F English | Comments |
|---|---------------------------|--------------------------|----------|
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China