

Plastcom SLOVALEN PC 88 FRD 1 Polypropylene Copolymer, Halogen Flame Retardant, UV Stabilized

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , Polypropylene, Flame Retardant

Material Notes:

Features Modified copolymer PP with the possibility of changing the MFI within the interval 5 - 20 g/10min. Stabilized against the UV-radiation by the UV stabilizer on the HALS basis. Retarded with the halogen flame retardant. Application - stadium seats with guaranteed life-cycle of the mechanical and surface properties, electrical industry - terminals, coil forms, covers of electrotools, guides. Fulfills 960°C glow wire and flammability in accordance with UL 94 V2. Concerning flammability, it complies with the building norm DIN 4102-B2. Delivered in the full RAL color scale. Application: Injection Moulding Information Provided by Plastcom spol. s r.o.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastcom-SLOVALEN-PC-88-FRD-1-Polypropylene-Copolymer-Halogen-Flame-Retardant-UV-Stabilized.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---|---|-----------------|
| Density | 0.930 g/cc | 0.0336 lb/in ³ | STN 64 0111 |
| Linear Mold Shrinkage | 0.0244 cm/cm | 0.0244 in/in | STN 64 0808 |
| Linear Mold Shrinkage, Transverse | 0.0239 cm/cm | 0.0239 in/in | STN 64 0808 |
| Melt Flow | 12 g/10 min @Load 2.16 kg, Temperature 230 °C | 12 g/10 min @Load 4.76 lb, Temperature 446 °F | STN EN ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--|---|------------------|
| Tensile Strength at Break | 28.0 MPa | 4060 psi | STN EN ISO 527-2 |
| Elongation at Break | 20 % | 20 % | STN EN ISO 527-2 |
| Tensile Modulus | 1.20 GPa | 174 ksi | STN EN ISO 527-2 |
| Flexural Strength | 35.0 MPa | 5080 psi | STN EN ISO 178 |
| Flexural Modulus | 1.00 GPa | 145 ksi | STN EN ISO 178 |
| Charpy Impact Unnotched | 11.0 J/cm ² @Temperature -20.0 °C | 52.3 ft-lb/in ² @Temperature -4.00 °F | STN EN ISO 179 |
| | NB @Temperature 23.0 °C | NB @Temperature 73.4 °F | STN EN ISO 179 |
| Charpy Impact, Notched | 0.400 J/cm ² @Temperature -20.0 °C | 1.90 ft-lb/in ² @Temperature -4.00 °F | STN EN ISO 179 |
| | 0.900 J/cm ² | 4.28 ft-lb/in ² | |

| Mechanical Properties | Metric @ Temperature 23.0 °C | English @ Temperature 73.4 °F | STN EN ISO 179 Comments |
|-----------------------|---------------------------------|----------------------------------|----------------------------|
|-----------------------|---------------------------------|----------------------------------|----------------------------|

| Thermal Properties | Metric | English | Comments |
|---|---------|---------|----------------------|
| Melting Point | 150 °C | 302 °F | DSC; STN EN ISO 3146 |
| Deflection Temperature at 1.8 MPa (264 psi) | 75.0 °C | 167 °F | STN EN ISO 75/A |
| Vicat Softening Point | 110 °C | 230 °F | B; STN EN ISO 306 |
| Flammability, UL94 | V-2 | V-2 | |
| Glow Wire Test | 960 °C | 1760 °F | STN IEC 60695-2-10 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------|-----------------|---------------|
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | STN IEC 60093 |
| Surface Resistance | 1.00e+16 ohm | 1.00e+16 ohm | STN IEC 60093 |
| Dielectric Strength | 24.0 kV/mm | 610 kV/in | STN IEC 60243 |
| Comparative Tracking Index | 450 V | 450 V | STN 34 6468 |

| Processing Properties | Metric | English | Comments |
|-----------------------|-----------------|------------------|----------|
| Melt Temperature | 200 - 250 °C | 392 - 482 °F | |
| Mold Temperature | 30.0 - 50.0 °C | 86.0 - 122 °F | |
| Injection Pressure | 50.0 - 80.0 MPa | 7250 - 11600 psi | |

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