

Total PPC 3666 Polypropylene, Heterophasic Copolymer, Extrusion

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Extrusion Grade

Material Notes:

Polypropylene PPC 3666 is a heterophasic copolymer with a Melt Flow index of 1.5 g/10 min. This resin offers an outstanding processability in combination with good melt strength and excellent mechanical properties. Polypropylene PPC 3666 has been especially developed for the extrusion of corrugated cardboard. It offers an excellent performance as well in other applications, include sheet and film extrusion and thermoforming. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPC-3666-Polypropylene-Heterophasic-Copolymer-Extrusion.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|----------|
| Specific Gravity | 0.905 g/cc | 0.905 g/cc | ISO 1183 |
| Bulk Density | 0.525 g/cc | 0.0190 lb/in ³ | ISO 1183 |
| Melt Flow | 1.5 g/10 min @Load 2.16 kg, Temperature 230 °C | 1.5 g/10 min @Load 4.76 lb, Temperature 446 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---|---|------------|
| Hardness, Rockwell R | 77 | 77 | ISO 2039-2 |
| Tensile Strength, Yield | 24.0 MPa | 3480 psi | ISO 527-2 |
| Elongation at Yield | 11 % | 11 % | ISO 527-2 |
| Tensile Modulus | 1.30 GPa | 189 ksi | ISO 527-2 |
| Flexural Modulus | 1.20 GPa | 174 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 7.00 kJ/m ² @Temperature -20.0 °C | 3.33 ft-lb/in ² @Temperature -4.00 °F | ISO 180 |
| | >= 50.0 kJ/m ² @Temperature 23.0 °C | >= 23.8 ft-lb/in ² @Temperature 73.4 °F | ISO 180 |
| Charpy Impact, Notched | 0.800 J/cm ² @Temperature -20.0 °C | 3.81 ft-lb/in ² @Temperature -4.00 °F | ISO 179 |
| | >= 5.00 J/cm ² @Temperature 23.0 °C | >= 23.8 ft-lb/in ² @Temperature 73.4 °F | ISO 179 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Melting Point Thermal Properties | 165 °C Metric | 329 °F English | ISO 3146 Comments |
|--|------------------|-------------------|-------------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 92.0 °C | 198 °F | 120°C per hour; ISO 752 |
| Deflection Temperature at 1.8 MPa (264 psi) | 50.0 °C | 122 °F | 120°C per hour; ISO 752 |
| Vicat Softening Point | 60.0 °C | 140 °F | 50°C per hour; ISO 306 |
| | @Load 5.10 kg | @Load 11.2 lb | |
| | 130 °C | 266 °F | 50°C per hour; ISO 306 |
| | @Load 1.02 kg | @Load 2.25 lb | |

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