

Total PPC 7810 Polypropylene, Heterophasic Copolymer, High Impact

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

Polypropylene PPC 7810 is a very high impact heterophasic copolymer with a Melt Flow index of 15 g/10 min. Polypropylene PPC 7810 has been specially developed for high impact and heavy duty applications like automotive bumpers, crates and pails. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPC-7810-Polypropylene-Heterophasic-Copolymer-High-Impact.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 | 15 g/10 min @Load 2.16 kg, Temperature 230 °C | 15 g/10 min @Load 4.76 lb, Temperature 446 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---------------------------------------------------|-------------------------------------------------------|------------|
| Hardness, Rockwell R | 78 | 78 | ISO 2039-2 |
| Tensile Strength, Yield | 24.0 MPa | 3480 psi | ISO 527-2 |
| Elongation at Yield | 6.0 % | 6.0 % | ISO 527-2 |
| Tensile Modulus | 1.05 GPa | 152 ksi | ISO 527-2 |
| Flexural Modulus | 0.950 GPa | 138 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 8.00 kJ/m ² @Temperature -20.0 °C | 3.81 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 | 0.850 J/cm ² @Temperature -20.0 °C | 4.04 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 | 165 °C | 329 °F | ISO 3146 |

| Thermal Properties | Metric | English | Comments |
|---------------------------------------------|---------------|---------------|-------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 50.0 °C | 122 °F | 120°C per hour; ISO 752 |
| Vicat Softening Point | 65.0 °C | 149 °F | 50°C per hour; ISO 306 |
| | @Load 5.10 kg | @Load 11.2 lb | |
| | 135 °C | 275 °F | 50°C per hour; ISO 306 |
| | @Load 1.02 kg | @Load 2.25 lb | |

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