

Total PPC 3120 MU5 Polypropylene, Heterophasic Copolymer, Automotive

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

Material Notes:

Polypropylene PPC 3120 MU5 is a heterophasic copolymer with a Melt Flow index of 15 g/10 min. Polypropylene PPC 3120 MU5 is a high impact copolymer formulated to give good UV resistance. Polypropylene PPC 3120 MU5 natural has been developed for the injection molding of automotive parts like interior trims, door and instrument panel, using direct coloration with color masterbatches. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPC-3120-MU5-Polypropylene-Heterophasic-Copolymer-Automotive.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, Shore D	63	63	ISO 868
Tensile Strength, Yield	26.0 MPa	3770 psi	ISO 527-2
Elongation at Yield	6.0 %	6.0 %	ISO 527-2
Tensile Modulus	1.40 GPa	203 ksi	ISO 527-2
Flexural Modulus	1.30 GPa	189 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature -20.0 °C	2.86 ft-lb/in ² @Temperature -4.00 °F	ISO 180
	10.0 kJ/m ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 180
Charpy Impact, Notched	0.600 J/cm ² @Temperature -20.0 °C	2.86 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	1.10 J/cm ² @Temperature 23.0 °C	5.23 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
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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)	52.0 °C	126 °F	120°C per hour; ISO 752
Vicat Softening Point	75.0 °C @Load 5.10 kg	167 °F @Load 11.2 lb	50°C per hour; ISO 306
	145 °C @Load 1.02 kg	293 °F @Load 2.25 lb	50°C per hour; ISO 306

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