Total PPC 3150 MX5 Polypropylene, Heterophasic Copolymer, Automotive

Categories:	Polymer; Thermoplastic; Polypropylene (PP); Polypropylene, Molded
Material Notes:	Polypropylene PPC 3150 MX5 is a high crystallinity and high impact polypropylene (HCPP) copolymer with a Melt Flow index of 15 g/10 min. The material is UV stabilized. Polypropylene PPC 3150 MX5 is particularly suitable for the injection molding of automotive interior trims, door panels and instrument panels, using direct coloration with color masterbatches. Information provided by Total Petrochemicals.
Vendors:	No vendors are listed for this material. Please click here if you are a supplier and would like information on how to add your listing to this material.

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/in³	ISO 1183
Linear Mold Shrinkage	0.014 - 0.016 cm/cm @Thickness 3.00 mm	0.014 - 0.016 in/in @Thickness 0.118 in	
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	29.0 MPa	4210 psi	ISO 527-2
Elongation at Yield	6.0 %	6.0 %	ISO 527-2
Tensile Modulus	1.50 GPa	218 ksi	ISO 527
	1.74 GPa	252 ksi	after conditioning; ISO 527
Flexural Modulus	0.410 GPa @Temperature 90.0 °C	59.5 ksi @Temperature 194 °F	ISO 178
	1.40 GPa @Temperature 23.0 °C	203 ksi @Temperature 73.4 °F	ISO 178
Izod Impact, Notched (ISO)	5.50 kJ/m² @Temperature -20.0 °C	2.62 ft-lb/in² @Temperature -4.00 °F	ISO 180
	9.00 kJ/m² @Temperature 23.0 °C	4.28 ft-lb/in² @Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	NB @Temperature -35.0 °C	NB @Temperature -31.0 °F	ISO 179-1eU
Charpy Impact, Notched	0.320 J/cm² @Temperature -30.0 °C	1.52 ft-lb/in² @Temperature -22.0 °F	ISO 179-1eA
	0.500 J/cm² @Temperature -20.0 °C	2.38 ft-lb/in² @Temperature -4.00 °F	ISO 179-1eA
	1.00 J/cm² @Temperature 23.0 °C	4.76 ft-lb/in² @Temperature 73.4 °F	ISO 179-1eA

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	120°C per hour; ISO 752
Deflection Temperature at 1.8 MPa (264 psi)	53.0 °C	127 °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

Descriptive Properties			
C-emission		22 µgC/g	VDA 277, VW 50180 - PV3015
Fogging		0.4 mg	DIN 75201-B, VW 50180 - PV3015
Odor		3	Scale 1 - 6, VDA 270, PV3200

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's terms of use regarding this information. Click here to view all the property values for this datasheet as they were originally entered into MatWeb.