

## Total PPC 3650 Polypropylene, Heterophasic Copolymer, Injection Molding

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

### Material Notes:

Polypropylene PPC 3650 is a heterophasic copolymer with a Melt Flow index of 2 g/10 min. Polypropylene PPC 3650 provides an excellent balance between toughness and flow, being particularly suitable in injection molding for heavy duty applications such as tote bins, bread and vegetable trays, crates and large pails. Information provided by Total Petrochemicals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Total-PPC-3650-Polypropylene-Heterophasic-Copolymer-Injection-Molding.php](http://www.lookpolymers.com/polymer_Total-PPC-3650-Polypropylene-Heterophasic-Copolymer-Injection-Molding.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 <sup>3</sup>	ISO 1183
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 230 °C	2.0 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	11 %	11 %	ISO 527-2
Tensile Modulus	1.25 GPa	181 ksi	ISO 527-2
Flexural Modulus	1.15 GPa	167 ksi	ISO 178
Izod Impact, Notched (ISO)	6.50 kJ/m <sup>2</sup> @Temperature -20.0 °C	3.09 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 180
	>= 50.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	>= 23.8 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180
Charpy Impact, Notched	0.750 J/cm <sup>2</sup> @Temperature -20.0 °C	3.57 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 179
	>= 5.00 J/cm <sup>2</sup> @Temperature 23.0 °C	>= 23.8 ft-lb/in <sup>2</sup> @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 0.46 MPa (264 psi)	48.0 °C	118 °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	
	147 °C	297 °F	50°C per hour; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

## Contact Songhan Plastic Technology Co.,Ltd.

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