Total PPC 11712 Polypropylene, Heterophasic Copolymer

Categories: Polymer; Thermoplastic; Polypropylene (PP)

Material Notes: ATOFINA Propylene 11712 is a nucleated controlled-rheology heterophasic copolymer. PPC 11712 is characterized by good stiffness and impact resistance as well as low shrinkage and low warpage. It has been formulated for excellent antistatic properties.

ATOFINA Propylene PPC 11712 has been developed for high speed injection molding of thin walled packaging containers and household articles.

Information provided provided by Total Petrochemicals.

Total Petrochemicals acquired former Fina and Atofina plastics product lines.

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
Bulk Density	0.525 g/cc	0.0190 lb/in³	ISO 1183
Density	0.905 g/cc	0.0327 lb/in³	ISO 1183
Melt Flow	70 g/10 min @Load 2.16 kg, Temperature 230 °C	70 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	84	84	ISO 2039-2
Tensile Strength, Yield	25.0 MPa	3630 psi	ISO 527-2
Elongation at Yield	5.0 %	5.0 %	ISO 527-2
Tensile Modulus	1.25 GPa	181 ksi	ISO 527-2
Flexural Modulus	1.15 GPa	167 ksi	ISO 527-2
Izod Impact, Notched (ISO)	8.00 kJ/m²	3.81 ft-lb/in²	ISO 180
	4.00 kJ/m² @Temperature -20.0 °C	1.90 ft-lb/in² @Temperature -4.00 °F	ISO 179
Charpy Impact, Notched	0.800 J/cm²	3.81 ft-lb/in²	ISO 179
	0.400 J/cm² @Temperature -20.0 °C	1.90 ft-lb/in² @Temperature -4.00 °F	ISO 179

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 75-2
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	120°C per hour; ISO 75-2
Vicat Softening Point	70.0 °C	158 °F	50N-50°C per hour; ISO 306
	140 °C	284 °F	10N-50°C per hour; ISO 306