

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/in ³	ISO 1183
Density	0.905 g/cc	0.0327 lb/in ³	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/m ²	3.81 ft-lb/in ²	ISO 180
	4.00 kJ/m ² @Temperature -20.0 °C	1.90 ft-lb/in ² @Temperature -4.00 °F	ISO 179
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179
	0.400 J/cm ² @Temperature -20.0 °C	1.90 ft-lb/in ² @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

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.