

TechResin® 8002N

Polypropylene, Impact Copolymer

Product Description

TechResin® 8002N high flow polypropylene impact copolymer is available in pellet form. This resin is typically used in thin-wall injection molding applications and offers very good low temperature impact resistance.

Status	Commercial: Active
Availability	North America
Application	Housewares; Sports, Leisure & Toys; TWIM Food Containers
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Contains Antistat; High Flow; High Impact Resistance; Nucleated

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (230 °C/2.16 kg)	80	g/10 min	80	g/10 min	ASTM D1238
Density, (23 °C)	0.90	g/cm ³	0.90	g/cm ³	ASTM D792
Mechanical					
Flexural Modulus					
(0.05 in/min, 1% Secant, Procedure A)	155000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			1070	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	3100	psi			ASTM D638
(50 mm/min)			21	MPa	ASTM D638
Tensile Elongation at Yield	5	%	5	%	ASTM D638
Impact					
Notched Izod Impact Strength					
(73 °F, Method A)	2.2	ft-lb/in			ASTM D256
(23 °C, Method A)			117	J/m	ASTM D256
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	212	°F			ASTM D648
(0.45 MPa, Unannealed)			100	°C	ASTM D648

Notes

These are typical property values not to be construed as specification limits.

MDT does not guarantee reproduction of these results. This is not a Certificate of Analysis and the customer is responsible for testing and confirming the Material Properties before making commercial use of the product to ensure that the product is fit for the intended application and that the product can be used, and any waste material disposed of, safely, properly, and legally based on the customer's or other's circumstances. Determination of the suitability and fitness of the product for any particular application is the sole responsibility of the purchaser of the product. This information is solely intended for informational purposes. This material confirmation relates solely to the product listed above and not as incorporated in any product or used in any process. Material Difference Technology makes no warranty or representation of any kind, regarding the information given or the products described, and expressly disclaims all implied warranties and conditions of quality, merchantability and suitability or fitness for a particular purpose. The customer or other user of the product assumes all risk and liability arising out of the use of the product, whether used alone or in combination with other materials. The presence absence or lack of information herein with respect to any particular international, national, federal, state or local law, statute, regulation, order or rule should not be construed to mean that product is regulated under, complies with or is exempt from such international, national, federal state or local law, statute, regulation, order or rule.