



Wednesday, August 30, 2023

PRL NY6-G33

Polymer Resources Ltd. - Polyamide 6

Units English

Action

Legend [\(Open\)](#)



General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight
Additive	• Lubricant
Features	• High Heat Resistance • Lubricated
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.38		ASTM D792
Molding Shrinkage - Flow (0.125 in)	2.0E-3 to 4.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 0.125 in)	28000	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	28000	psi	ASTM D638
Flexural Modulus (0.125 in)	1.30E+6	psi	ASTM D790
Flexural Strength (0.125 in)	42000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	2.2	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	425	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	410	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	165 to 185	°F
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	480 to 515	°F
Middle Temperature	470 to 500	°F
Front Temperature	480 to 515	°F
Processing (Melt) Temp	480 to 515	°F
Mold Temperature	150 to 220	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

The information contained herein is based on our best knowledge and we believe it to be true and accurate. Please read all statements and recommendations in conjunction with our conditions of sale, which apply to all goods sold by us. Statements concerning possible uses of materials described herein are not to be construed as recommendations for use of such materials in the infringement of any patent or copyright. Lot data is available upon request. The user of this material must make their own evaluations to determine the suitability of this material from a technical as well as health, safety and environmental standpoint. This data is not intended for specification purposes.