



Wednesday, August 30, 2023

PRL NY66-G43

Polymer Resources Ltd. - Polyamide 66

Units English ▼**Action****Legend** ([Open](#))**General Information****General**

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 43% 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	1.50		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 0.125 in)	29000	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	29000	psi	ASTM D638
Flexural Modulus (0.125 in)	1.59E+6	psi	ASTM D790
Flexural Strength (0.125 in)	40000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	2.3	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	500	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	485	°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	520 to 540	°F
Middle Temperature	530 to 550	°F
Front Temperature	560 to 580	°F
Processing (Melt) Temp	550 to 570	°F
Mold Temperature	150 to 220	°F

Notes¹ Typical properties: these are not to be construed as specifications.

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