



Wednesday, August 30, 2023

**PRL NY66-IM-G40**Units English ▼

Polymer Resources Ltd. - Polyamide 66

**Action****Legend** ([Open](#))**General Information****General**

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Additive	• Impact Modifier • Lubricant
Features	• High Impact Resistance • Impact Modified • Lubricated
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

**ASTM & ISO Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.40		ASTM D792
Water Absorption (24 hr, 50% RH)	0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 0.125 in)	19000	psi	ASTM D638
Tensile Elongation (Break, 0.125 in)	3.0	%	ASTM D638
Flexural Modulus (0.125 in)	1.35E+6	psi	ASTM D790
Flexural Strength (Break, 0.125 in)	27500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	3.5	ft-lb/in	ASTM D256
Unnotched Izod Impact (73°F, 0.125 in)	17	ft-lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	475	°F	ASTM D648
CLTE - Flow (-40 to 104°F)	1.8E-5	in/in/°F	ASTM E831
Thermal Conductivity	2.6	Btu-in/hr/ft <sup>2</sup> /°F	ASTM E1530

**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

**Notes**<sup>1</sup> Typical properties: these are not to be construed as specifications.

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