



Wednesday, August 30, 2023

PRL NY6-IM1

Units English ▼

Polymer Resources Ltd. - Polyamide 6

Action Legend ([Open](#))

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Additive	• Impact Modifier
Features	• Impact Modified • Medium Impact Resistance
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.09		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.016 to 0.020	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 0.125 in)	9000	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	9000	psi	ASTM D638
Flexural Modulus (0.125 in)	300000	psi	ASTM D790
Flexural Strength (0.125 in)	11000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	3.0	ft·lb/in	ASTM D256
Gardner Impact (0.125 in)	320	in·lb	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	335	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	145	°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	430 to 475	°F
Middle Temperature	460 to 490	°F
Front Temperature	470 to 500	°F
Processing (Melt) Temp	460 to 515	°F
Mold Temperature	150 to 180	°F

Notes

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

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