



Wednesday, August 30, 2023

PRL NY66-IM1

Polymer Resources Ltd. - Polyamide 66

Units

English ▼

Action

Legend [\(Open\)](#)



General Information

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Impact Modifier	• Lubricant	
Features	• Impact Modified	• Lubricated	• 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)	0.014 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)	8700	psi	ASTM D638
Flexural Modulus (0.125 in)	280000	psi	ASTM D790
Flexural Strength (0.125 in)	12000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	3.0	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	440	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	165	°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	510 to 530	°F
Middle Temperature	520 to 540	°F
Front Temperature	530 to 550	°F
Processing (Melt) Temp	530 to 560	°F
Mold Temperature	150 to 200	°F

Notes

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

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