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Polymer Resources
Classic® Engineering Plastic Compounds

Wednesday, August 30, 2023

PRL NY66-IM2-(color)H

Polymer Resources Ltd. - *Polyamide 66*

Units English

Action **Legend (Open)**

General Information

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Heat Stabilizer	• Impact Modifier	• Lubricant
Features	• Lubricated		
RoHS Compliance	• RoHS Compliant		
UL File Number	• E113219		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.07		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.017 to 0.020	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield, 0.125 in)	7500	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	7300	psi	ASTM D638
Flexural Modulus (0.125 in)	245000	psi	ASTM D790
Flexural Strength (0.125 in)	9000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.125 in)	16	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	415	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	155	°F	ASTM D648
RTI Elec			UL 746B
0.06 in	149	°F	
0.12 in	149	°F	
RTI Imp			UL 746B
0.06 in	149	°F	
0.12 in	149	°F	
RTI Str			UL 746B
0.06 in	149	°F	
0.12 in	149	°F	
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.06 in	HB		
0.12 in	HB		

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.