Polymer Resources
Classic® Engineering Plastic Compounds

Wednesday, August 30, 2023

PRL NY66-GP2

Polymer Resources Ltd. - *Polyamide 66*

Units English

Action **Legend (Open)**

General Information

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Lubricant	• Nucleating Agent	
Features	• General Purpose	• Lubricated	• Nucleated
Uses	• General Purpose		
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density / Specific Gravity	1.14		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.012 to 0.018	in/in	ASTM D955
Molding Shrinkage - Across Flow (0.125 in)	0.015 to 0.021	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (0.125 in)	490000	psi	ASTM D638
Tensile Strength (Yield, 0.125 in)	13000	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	13000	psi	ASTM D638
Tensile Strain (Yield, 0.125 in)	4.5	%	ASTM D638
Tensile Strain (Break, 0.125 in)	30	%	ASTM D638
Flexural Modulus (0.125 in)	440000	psi	ASTM D790
Flexural Strength (0.125 in)	17000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	1.8	ft·lb/in²	
73°F	2.0	ft·lb/in²	
Notched Izod Impact (73°F, 0.125 in)	1.0	ft·lb/in	ASTM D256
Notched Izod Impact Strength (73°F)	1.5	ft·lb/in²	ISO 180/1A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	120		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	475	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	215	°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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