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Polymer Resources
Classic® Engineering Plastic Compounds

Wednesday, August 30, 2023

PRL NY66-IM-G40

Polymer Resources Ltd. - *Polyamide 66*

Units English

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 [1]

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/ft²/°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

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