+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

Polymer Resources
Classic® Engineering Plastic Compounds

Wednesday, August 30, 2023

PRL NY6-G33-(color)H

Polymer Resources Ltd. - *Polyamide 6*

Units English

Action **Legend (Open)**

General Information

General		
Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight	
Additive	• Heat Stabilizer	• Lubricant
Features	• Heat Stabilized	• Lubricated
RoHS Compliance	• RoHS Compliant	
Forms	• Pellets	
Processing Method	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.38		ASTM D792
Molding Shrinkage - Flow (0.125 in)	2.0E-3 to 4.0E-3	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield, 0.125 in)	28000	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	28000	psi	ASTM D638
Flexural Modulus (0.125 in)	1.30E+6	psi	ASTM D790
Flexural Strength (0.125 in)	42000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.125 in)	2.2	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	425	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	410	°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	480 to 515	°F
Middle Temperature	470 to 500	°F
Front Temperature	480 to 515	°F
Processing (Melt) Temp	480 to 515	°F
Mold Temperature	150 to 220	°F

Notes

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