



Wednesday, August 30, 2023

PRL NY6-M25G15

Polymer Resources Ltd. - Polyamide 6

Units

English ▼

Action

Legend ([Open](#))



General Information

General		
Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight • Mineral, 25% Filler by Weight	
Additive	• Lubricant	
Features	• High Heat Resistance • Lubricated	
RoHS Compliance	• RoHS Compliant	
Forms	• Pellets	
Processing Method	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.48		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.0E-3 to 9.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 0.125 in)	19000	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	19000	psi	ASTM D638
Flexural Modulus (0.125 in)	1.00E+6	psi	ASTM D790
Flexural Strength (0.125 in)	26000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.0	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)	400	°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	450 to 480	°F
Middle Temperature	470 to 500	°F
Front Temperature	480 to 515	°F
Processing (Melt) Temp	550 to 580	°F
Mold Temperature	180 to 220	°F

Notes

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

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