Monday, October 4, 2021

PRL NY6-G13

Polymer Resources Ltd. - *Polyamide 6*

Units English

Action **Legend (Open)**

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 13% 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	1.22		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.0E-3 to 6.0E-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)	760000	psi	ASTM D790
Flexural Strength (0.125 in)	24000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.125 in)	1.1	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	400	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	390	°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	460 to 515	°F
Mold Temperature	150 to 220	°F

Notes

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