



Wednesday, August 30, 2023

PRL NY66-EX1


Polymer Resources Ltd. - Polyamide 66

Units

English ▼

Action

Legend ([Open](#))



General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Features	• High Viscosity
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Extrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14		ASTM D792
Molding Shrinkage - Flow	0.012 to 0.018	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 0.125 in)	12500	psi	ASTM D638
Tensile Strength (Break, 0.125 in)	12500	psi	ASTM D638
Flexural Modulus (0.125 in)	475000	psi	ASTM D790
Flexural Strength (0.125 in)	17500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.5	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	445	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	190	°F	ASTM D648

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	165 to 185	°F
Drying Time	3.0 to 4.0	hr
Cylinder Zone 1 Temp.	510 to 520	°F
Cylinder Zone 2 Temp.	520 to 530	°F
Cylinder Zone 3 Temp.	530 to 540	°F
Melt Temperature	530 to 580	°F
Die Temperature	550	°F

Notes

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

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