

PRL NY6-G43

Polyamide 6

Polymer Resources Ltd.

Message:

PRL NY6-G43 is a Polyamide 6 (Nylon 6) product filled with 43% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

RoHS Compliant

Heat Resistant

Lubricated

General Information			
Filler / Reinforcement	Glass Fiber,43% Filler by Weight		
Additive	Lubricant		
Features	High Heat Resistance Lubricated		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	221	MPa	
Break, 3.18 mm	221	MPa	
Flexural Modulus (3.18 mm)	11700	MPa	ASTM D790
Flexural Strength (3.18 mm)	290	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	238	°C	
1.8 MPa, Unannealed, 3.18 mm	221	°C	
Injection	Nominal Value	Unit	Test Method
Drying Temperature	73.9 to 85.0	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Rear Temperature	232 to 249	°C	
Middle Temperature	243 to 260	°C	
Front Temperature	249 to 268	°C	

Processing (Melt) Temp	249 to 268	°C
Mold Temperature	82.2 to 104	°C

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