

PRL NY66-IM-G40

Polyamide 66
Polymer Resources Ltd.

Message:

PRL NY66-IM-G40 is a Polyamide 66 (Nylon 66) product filled with 40% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

RoHS Compliant
Impact Modified
Impact Resistant
Lubricated

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Impact Modifier		
	Lubricant		
Features	High Impact Resistance		
	Impact Modified		
	Lubricated		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Water Absorption (24 hr, 50% RH)	0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, 3.18 mm)	131	MPa	ASTM D638
Tensile Elongation (Break, 3.18 mm)	3.0	%	ASTM D638
Flexural Modulus (3.18 mm)	9310	MPa	ASTM D790
Flexural Strength (Break, 3.18 mm)	190	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	190	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.18 mm)	880	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	246	°C	ASTM D648
CLTE - Flow (-40 to 40°C)	3.2E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.37	W/m/K	ASTM E1530
Injection	Nominal Value	Unit	
Drying Temperature	73.9 to 85.0	°C	

Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	271 to 282	°C
Middle Temperature	277 to 288	°C
Front Temperature	293 to 304	°C
Processing (Melt) Temp	288 to 299	°C
Mold Temperature	65.6 to 104	°C

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