Nylene® 4114-33

Polymeric Resources Corporation (PRC) - *Polyamide 66*

General Information

Product Description

Nylene 4114-33 is a compounded, impact-modified, 33% glass fiber-reinforced nylon 6/6 molding resin with excellent impact strength.

General		
Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight	
Additive	• Impact Modifier	
Features	• Copolymer • High Stiffness	• High Toughness • Impact Modified
Uses	• Fasteners • General Purpose	• Handles • Industrial Applications
Processing Method	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.33		ASTM D792
Mold Shrinkage	3.00	mil/in	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	17000	psi	ASTM D638
Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	950000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	2.8	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	453	°F	ASTM D648
Peak Melting Temperature	498	°F	ASTM D3418

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	149 to 360	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.20	%
Suggested Shot Size	25 to 75	%
Suggested Max Regrind	25	%
Processing (Melt) Temp	540 to 601	°F
Mold Temperature	180 to 199	°F