Nylene® 9110 G43

Polymeric Resources Corporation (PRC) - *Polyamide 610*

General Information

Product Description

- 43% glass fiber reinforced nylon 6/10 injection molding grade.
- Has the high strength and stiffness of reinforced nylon, while also having the reduced moisture pick-up associated with nylon 6/10.
- Suitable for applications where moisture pickup may be a concern.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber, 43% Filler by Weight		
Features	• Copolymer • General Purpose	• High Stiffness • High Strength	• Low Moisture Absorption
Uses	• Fittings	• Housings	• Pump Parts
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.42		ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	23900	psi	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	1.50E+6	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	3.0	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	398	°F	ASTM D648
Peak Melting Temperature	430	°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	120 to 199	°F

Notes

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