Nylene® NX1440

Polymeric Resources Corporation (PRC) - *Polyamide 6*

General Information

Product Description

- Nylene NX1440 is a nucleated medium viscosity, fast cycle molding resin.
- Parts molded from NX1440 have better dimensional stability at moisture equilibrium than parts molded from other nylon
- Parts molded have better dimensional stability at moisture equilibrium than parts molded from conventional nylon.
- Crystallization initiators provide fast molding cycles through rapid melt set-up.
- Most useful for applications requiring greater stiffness and a higher heat distortion temperature.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Nucleating Agent		
Features	• Fast Molding Cycle • Fatigue Resistant • Fuel Resistant • General Purpose	• Good Dimensional Stability • Good Impact Resistance • Good Mold Release • Grease Resistant	• Medium Viscosity • Nucleated • Oil Resistant
Uses	• Appliances • Automotive Applications • Bearings • Caps	• Fasteners • Furniture • General Purpose • Household Goods	• Industrial Applications • Racks • Rollers • Trays
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14		ASTM D792
Molding Shrinkage - Across Flow	0.014	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	12000	psi	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	400000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	0.80	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	140	°F	ASTM D648
Peak Melting Temperature	428	°F	ASTM D3418

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	151 to 180	°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	441 to 559	°F
Mold Temperature	120 to 199	°F

Notes

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