Nylene® 494

Polymeric Resources Corporation (PRC) - *Polyamide 6*

General Information

Product Description

- Engineered nylon 6 compound optimized for Rotational Molding
- Heat stabilization for high-temperature performance
- Economical formulation minimizes costs compared to 100% powder
- Optimized for use alongside Nylene®494P BLK powder to ensure good part quality
- Compliant with CARB and EPA fuel permeation regulations, prioritizing environmental sustainability

General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• Abrasion Resistant • Chemical Resistant • Creep Resistant • Good Strength	• Grease Resistant • Heat Stabilized • High ESCR (Stress Crack Resist.) • Hydrocarbon Resistant	• Low Friction • Machinable • Oil Resistant • Wear Resistant
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Rotational Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.13		ASTM D792
Molding Shrinkage - Flow	0.015 to 0.020	in/in	ASTM D955
Water Absorption (Equilibrium)	2.0	%	ASTM D570
Relative Viscosity	70.0		ASTM D789
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (73°F)	11500	psi	ASTM D638
Tensile Elongation (Break)	> 50	%	ASTM D638
Flexural Modulus	370000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Impact Strength [2] (73°F, 0.140 in)	75	ft·lb	ARM
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	309	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	129	°F	ASTM D648
Peak Melting Temperature	428	°F	ASTM D3418
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.12 in)	HB		UL 94
Automotive Burn Test	Pass		FMVSS 302

Processing Information

Injection	Nominal Value	Unit
Drying Time	0.33 to 0.42	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	550 to 649	°F

Notes

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

[2] Roto Specimen