

Nylene® 894 IM

Polymeric Resources Corporation (PRC) - Polyamide 6

General Information

Product Description

- Rotational Molding Engineered, High Impact Resistance, Heat Stabilized, Nylon Copolymer
- CARB and EPA Fuel Permeation Regulation Compliant

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Heat Stabilizer
Features	• Copolymer • Heat Stabilized • High Impact Resistance
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Rotational Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.08		ASTM D792
Water Absorption (Equilibrium)	1.8	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 73°F)	6530	psi	ASTM D638
Tensile Elongation (Break)	> 100	%	ASTM D638
Flexural Modulus	200000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Impact Strength ² (73°F)	> 145	ft·lb	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.125 in)	199	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	109	°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

