

Technical Data Sheet

Pro-fax RP320N



Polypropylene, Random Copolymer

Product Description

Pro-fax RP320N barefoot polypropylene random copolymer is available in pellet form. This resin is typically used in cast film applications and offers exceptional clarity and gloss, as well as improved cold temperature impact resistance and broader heat seal range compared to homopolymer polypropylene.

Application	Bags & Pouches; Breathable Film; Film Wrap; Foamed Sheet; Food Packaging Film; Heavy Duty Packaging; Hygiene Film; Peelable Film; Stationery Film; Stretch Wrap Film; Twist Wrap Film
Market	Flexible Packaging; Industrial, Building & Construction
Processing Method	Cast Film; Injection Molding
Attribute	Good Processability; Opticals

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (230 °C/2.16 kg)	12	g/10 min	12	g/10 min	ASTM D1238
Density, (23 °C)	0.90	g/cm ³	0.90	g/cm ³	ASTM D792
Mechanical					
Flexural Modulus					
(0.05 in/min, 1% Secant, Procedure A)	135000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			930	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	4000	psi			ASTM D638
(50 mm/min)			28	MPa	ASTM D638
Tensile Elongation at Yield	13	%	13	%	ASTM D638
Impact					
Notched Izod Impact Strength					
(73 °F, Method A)	0.9	ft-lb/in			ASTM D256
(23 °C, Method A)			48	J/m	ASTM D256
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	170	°F			ASTM D648
(0.45 MPa, Unannealed)			77	°C	ASTM D648