Technical Data Sheet

Pro-fax RP223L

Polypropylene, Random Copolymer

Product Description

Pro-fax RP223L is a medium melt flow rate polypropylene random copolymer available in pellet form. This resin is typically used in cast and oriented film, as well as foam applications. In film applications it offers exceptional clarity, gloss, improved cold temperature impact resistance and lower and broader heat sealing properties as compared to conventional polypropylene homopolymer. *Pro-fax* RP223L is a barefoot resin with no slip, anti-block or other property specific additives. This product is manufactured with a non-phthalate catalyst system and is produced without animal derived components.

Application	Bags & Pouches; Breathable Film; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Hygiene Film; Packaging Foam, and other Foam applications; Stationery Film; Twist Wrap Film
Processing Method	Cast Film; Extruded Foam; Oriented Film
Attribute	Foamable; Good Heat Seal; Good Optical Properties; Good Processability; Medium Flow

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (230 °C/2.16 kg)	7.0	g/10 min	7.0	g/10 min	ASTM D1238
Density, (23 °C)	0.90	g/cm³	0.90	g/cm³	ASTM D792
Mechanical					
Flexural Modulus					
(0.05 in/min, 1% Secant, Procedure A)	130000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			896	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	3800	psi			ASTM D638
(50 mm/min)			26.2	MPa	ASTM D638
Tensile Elongation at Yield	13	%	13	%	ASTM D638
Impact					
Notched Izod Impact Strength					
(73 °F, Method A)	0.95	ft-lb/in			ASTM D256
(23 °C, Method A)			51	J/m	ASTM D256
Gardner Impact, (23 °C, Geometry GC)	160	in-lbs	18	J	ASTM D5420
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	174	°F			ASTM D648
(0.45 MPa, Unannealed)			79	°C	ASTM D648

Notes

These are typical property values not to be construed as specification limits.