

Technical Data Sheet

Pro-fax RP311H



Polypropylene, Random Copolymer

Product Description

Pro-fax RP311H low flow random copolymer polypropylene is available in pellet form. This resin is typically used in blow molding and thermoforming applications.

Status	Commercial: Active
Availability	North America
Application	Bottles For Consumer Goods; Clear Containers
Market	Rigid Packaging
Processing Method	Extrusion Blow Molding; Injection Blow Molding; Sheet; Thermoforming
Attribute	Contains Antistat; Medium Clarity; Nucleated; Random Copolymer

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (230 °C/2.16 kg)	2.0	g/10 min	2.0	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)	150000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			1030	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	4100	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)	4.0	ft-lb/in			ASTM D256
(23 °C, Method A)			215	J/m	ASTM D256
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	176	°F			ASTM D648
(0.45 MPa, Unannealed)			80	°C	ASTM D648
Optical					
Haze, (45 mil)	25	%	25	%	ASTM D1003