

Technical Data Sheet

Pro-fax RP448S



Polypropylene, Random Copolymer

Product Description

Pro-fax RP448S high melt flow, clarified polypropylene random copolymer is available in pellet form. This resin is typically used in injection molding and injection-stretch blow molding applications and offers very good see-through and contact clarity.

Application	Clear Containers; Housewares; Sports, Leisure & Toys; TWIM Food Containers
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding; Injection Stretch Blow Molding
Attribute	Contains Antistat; High Clarity

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (230 °C/2.16 kg)	40	g/10 min	40	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)	145000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			1000	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	12	%	12	%	ASTM D638
Impact					
Notched Izod Impact Strength					
(73 °F, Method A)	0.8	ft-lb/in			ASTM D256
(23 °C, Method A)			43	J/m	ASTM D256
Gardner Impact					
(73 °F, Geometry GC)	150	in-lbs			ASTM D5420
(23 °C, Geometry GC)			17	J	ASTM D5420
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	185	°F			ASTM D648
(0.45 MPa, Unannealed)			83	°C	ASTM D648
Optical					
Haze, (45 mil)	8	%	8	%	ASTM D1003