

Technical Data Sheet

Pro-fax RP491S

Polypropylene, Random Copolymer

Product Description

Pro-fax RP491S polypropylene random copolymer resin is available in pellet form. This resin is typically used in injection molding applications.

Application	Containers
Market	Rigid Packaging
Processing Method	Injection Molding
Attribute	Contains Antistat; Good Impact Resistance; Nucleated

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (230 °C/2.16 kg)	35	g/10 min	35	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)	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)	1.1	ft-lb/in			ASTM D256
(23 °C, Method A)			59	J/m	ASTM D256
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	185	°F			ASTM D648
(0.45 MPa, Unannealed)			85	°C	ASTM D648