

Technical Data Sheet

Pro-fax EP390S

Polypropylene, Impact Copolymer

Product Description

Pro-fax EP390S high impact polypropylene copolymer is available in pellet form. This resin is typically used in injection molding applications and offers excellent cold temperature impact resistance.

Application	Industrial; Sports, Leisure & Toys; TWIM Food Containers
Market	Consumer Products; Industrial, Building & Construction; Rigid Packaging
Processing Method	Extrusion Flat-die; Injection Molding
Attribute	Low Temperature Impact Resistance

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)	130000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			900	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	2900	psi			ASTM D638
(50 mm/min)			20	MPa	ASTM D638
Tensile Elongation at Yield	6	%	6	%	ASTM D638
Impact					
Notched Izod Impact Strength					
(73 °F, Method A)	2.8	ft-lb/in			ASTM D256
(23 °C, Method A)			149	J/m	ASTM D256
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	181	°F			ASTM D648
(0.45 MPa, Unannealed)			83	°C	ASTM D648