

Technical Data Sheet

Pro-fax HP403G

Polypropylene, Homopolymer

Product Description

Pro-fax HP403G is a general purpose homopolymer with good heat resistance and high tensile strength. It is available in pellet form, and it is typically used in extrusion applications.

Application	General Sheet Extrusion; Nets; Strapping; Thermoformed Food Containers
Market	Industrial, Building & Construction; Textile
Processing Method	Blown Film; Extrusion Flat-die; Monofilament; Sheet
Attribute	General Purpose; Good Heat Resistance; High Strength; Homopolymer

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (230 °C/2.16 kg)	1.5	g/10 min	1.5	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)	220000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			1520	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	5000	psi			ASTM D638
(50 mm/min)			34.5	MPa	ASTM D638
Tensile Elongation at Yield	11	%	11	%	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)	189	°F			ASTM D648
(0.45 MPa, Unannealed)			87	°C	ASTM D648
Optical					
Haze, (45 mil)	31	%	31	%	ASTM D1003