

Technical Data Sheet

Pro-fax HP423M

Polypropylene, Homopolymer

Product Description

Pro-fax HP423M is a polypropylene homopolymer available in pellet form. This resin is typically used in cast film applications. It is formulated with slip additive.

Application	Clarity Film; Foamed Sheet; Food Packaging Film; Lamination Film; Nonwovens
Market	Flexible Packaging
Processing Method	Cast Film; Extrusion Flat-die; Staple Fiber
Attribute	Good Optical Properties; High Clarity; High Gloss; High Slip; Low Coefficient of Friction

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (230 °C/2.16 kg)	8.5	g/10 min	8.5	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)	185000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			1280	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	4680	psi			ASTM D638
(50 mm/min)			32.2	MPa	ASTM D638
Tensile Elongation at Yield	11	%	11	%	ASTM D638
Impact					
Notched Izod Impact Strength					
(73 °F, Method A)	0.9	ft-lb/in			ASTM D256
(23 °C, Method A)			43	J/m	ASTM D256
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	190	°F			ASTM D648
(0.45 MPa, Unannealed)			88	°C	ASTM D648