

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.

Regulatory Status

For regulatory compliance information, see *Pro-fax* HP423M [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
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

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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