

## 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.

#### Regulatory Status

For regulatory compliance information, see *Pro-fax* HP403G [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

<b>Status</b>	Commercial: Active
<b>Availability</b>	North America
<b>Application</b>	General Sheet Extrusion; Nets; Strapping; Thermoformed Food Containers
<b>Market</b>	Industrial, Building & Construction; Textile
<b>Processing Method</b>	Blown Film; Extrusion Flat-die; Monofilament; Sheet
<b>Attribute</b>	General Purpose; Good Heat Resistance; High Strength; Homopolymer

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
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 <sup>3</sup>	0.90	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>					
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
<b>Impact</b>					
Notched Izod Impact Strength					
(73 °F, Method A)	1.1	ft-lb/in			ASTM D256
(23 °C, Method A)			59	J/m	ASTM D256
<b>Thermal</b>					
Deflection Temperature Under Load					
(66 psi, Unannealed)	189	°F			ASTM D648
(0.45 MPa, Unannealed)			87	°C	ASTM D648
<b>Optical</b>					
Haze, (45 mil)	31	%	31	%	ASTM D1003

## 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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