

## Technical Data Sheet

### *Pro-fax* HP553J



Polypropylene, Homopolymer

#### Product Description

*Pro-fax* HP553J is a low water carryover raffia and tape grade polypropylene homopolymer resin with a nominal MFR target of 3.5 g/10 min and good tensile strength. It is available in pellet form and is typically used in extrusion applications, including raffia, strapping, tapes, rope, twine and cordage.

#### Regulatory Status

For regulatory compliance information, see *Pro-fax* HP553J [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

<b>Status</b>	Commercial: Active
<b>Availability</b>	North America
<b>Application</b>	Raffia/Tapes/Strapping; Ropes/Twine/Cordage
<b>Processing Method</b>	Cast Film
<b>Attribute</b>	Low Water Carryover

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Melt Flow Rate, (230 °C/2.16 kg)	3.5	g/10 min	3.5	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)	222000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			1530	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	5200	psi			ASTM D638
(50 mm/min)			35	MPa	ASTM D638
Tensile Elongation at Yield	10	%	10	%	ASTM D638
<b>Impact</b>					
Notched Izod Impact Strength					
(73 °F, Method A)	0.97	ft-lb/in			ASTM D256
(23 °C, Method A)			52	J/m	ASTM D256

## 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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