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).

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

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
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/cm³	0.90	g/cm³	ASTM D792
Mechanical					
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
Impact					
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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