Technical Data Sheet

Pro-fax RP311H

Polypropylene, Random Copolymer

Product Description

Pro-fax RP311H low flow random copolymer polypropylene is available in pellet form. This resin is typically used in blow molding and thermoforming applications.

Regulatory Status

For regulatory compliance information, see *Pro-fax* RP311H Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Application	Bottles For Consumer Goods; Clear Containers
Market	Rigid Packaging
Processing Method	Extrusion Blow Molding; Injection Blow Molding
Attribute	Contains Antistat; Medium Clarity; Nucleated; Random Copolymer

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (230 °C/2.16 kg)	2.0	g/10 min	2.0	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)	150000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			1030	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	4100	psi			ASTM D638
(50 mm/min)			28	MPa	ASTM D638
Tensile Elongation at Yield	13	%	13	%	ASTM D638
Impact					
Notched Izod Impact Strength					
(73 °F, Method A)	4.0	ft-lb/in			ASTM D256
(23 °C, Method A)			215	J/m	ASTM D256
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	176	°F			ASTM D648
(0.45 MPa, Unannealed)			80	°C	ASTM D648
Optical					
Haze, (45 mil)	25	%	25	%	ASTM D1003

Manufacturer website: https://www.lyondellbasell.com/en/

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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