

# 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 \(SDS\)](#).

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

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
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/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)	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
<b>Impact</b>					
Notched Izod Impact Strength					
(73 °F, Method A)	4.0	ft-lb/in			ASTM D256
(23 °C, Method A)			215	J/m	ASTM D256
<b>Thermal</b>					
Deflection Temperature Under Load					
(66 psi, Unannealed)	176	°F			ASTM D648
(0.45 MPa, Unannealed)			80	°C	ASTM D648
<b>Optical</b>					
Haze, (45 mil)	25	%	25	%	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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