

Technical Data Sheet

Pro-fax 8523



Polypropylene, Impact Copolymer

Product Description

Pro-fax 8523 very high impact polypropylene copolymer is available in pellet form. This resin is typically used in extrusion or injection molding applications and offers excellent low temperature impact resistance.

ASTM and ISO-based versions of the technical data sheet are available for Pro-fax 8523.

Regulatory Status

For regulatory compliance information, see Pro-fax 8523 [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Automotive Parts
Market	Automotive; Consumer Products
Processing Method	Injection Molding; Sheet and Profile Extrusion
Attribute	Low Temperature Impact Resistance

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (230 °C/2.16 kg)	4.0	g/10 min	4.0	g/10 min	ASTM D1238
Density, (23 °C)	0.90	g/cm ³	0.90	g/cm ³	ASTM D792
Mechanical					
Flexural Modulus					
(0.05 in/min, 1% Secant, Procedure A)	140000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			965	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	3100	psi			ASTM D638
(50 mm/min)			21	MPa	ASTM D638
Tensile Elongation at Yield	8	%	8	%	ASTM D638
Impact					
Notched Izod Impact Strength					
(73 °F, Method A)	No Break				ASTM D256
(23 °C, Method A)			No Break		ASTM D256
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	165	°F			ASTM D648
(0.45 MPa, Unannealed)			74	°C	ASTM D648

Notes

These are typical property values not to be construed as specification limits.

Automotive Specifications

- ▶ FCA MS-DB500 CPN 3478
- ▶ GM QMW15702-150080

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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