Technical Data Sheet

Pro-fax 7823

Polypropylene, Impact Copolymer

Product Description

Pro-fax 7823 fractional melt flow polypropylene copolymer is available in pellet form. This resin is typically used in extrusion applications and offers high melt strength and excellent impact resistance.

ASTM and ISO-based versions of the technical data sheet are available for *Pro-fax* 7823.

Regulatory Status

For regulatory compliance information, see *Pro-fax* 7823 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Application	Automotive Parts; Food Packaging Film; Raffia/Tapes/Strapping; Specialty Film; Underhood
Market	Automotive; Compounding; Flexible Packaging; Textile
Processing Method	Blown Film; Compounding; Extrusion Blow Molding; Sheet and Profile Extrusion; Thermoforming
Attribute	Good Heat Aging Resistance; Good Impact Resistance; Good Melt Strength; Good Stiffness; Low Temperature Impact Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	0.45	g/10 min	ASTM D1238
Density, (23 °C, Method A)	0.90	g/cm³	ISO 1183-1
Mechanical			
Flexural Modulus, (23 °C)	1180	MPa	ISO 178
Tensile Stress at Yield, (23 °C)	26	MPa	ISO 527-1, -2
Tensile Strain at Yield, (23 °C)	11	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	66	kJ/m²	ISO 179
(-40 °C)	2.9	kJ/m²	ISO 179
Notched Izod Impact Strength			
(23 °C)	64	kJ/m²	ISO 180
(-40 °C)	4.0	kJ/m²	ISO 180
Hardness			
Rockwell Hardness, (R-Scale)	79		ISO 2039-2
Thermal			
Deflection Temperature Under Load			
(0.45 MPa, Unannealed)	78	°C	ISO 75B-1, -2
(1.80 MPa, Unannealed)	49	°C	ISO 75A-1, -2

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

Notes

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

Automotive Specifications

- FCA MS-DB500 CPN 3735
- FCA MS-DB500 CPN 4002
- Ford ESA-M4D281-A
- Ford WSS-M4D932-A1
- Ford WSS-M4D932-B1
- GM GMP.PP.021
- GM GMW15702-150041
- GM GMW17178-T1
- Opel QK003721

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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