



Pro-fax 7823

Polypropylene, Impact Copolymer

Product Description

"Pro-fax" 7823 fractional melt flow polypropylene copolymer resin is designed for extrusion applications requiring high melt strength and excellent toughness. This resin is available in pellet form.

" Pro-fax" 7823 resin has passed USP Class VI testing. It has a UL yellow card flame rating of UL94HB; these apply to all colors at a minimum thickness of 0.039 inches (1.mm).

For regulatory compliance information see "Pro-fax" 7823 Regulatory Affairs Product Stewardship Information/Certification Data Sheet (RAPIDS).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO ASTM
Availability	North America
Processing Method	Blown film, Tapes & Raffia, Extrusion Blow Moulding
Features	Good Heat Aging Resistance , Good Impact Resistance , Low Temperature Impact Resistance, Good Melt Strength , Good Stiffness
Typical Customer Applications	Under-the-Hood & Structural Applications, Raffia/Tapes /Strapping, Film Wrap, Food Packaging Film

Typical Properties	Method	Value	Unit
Physical			
Density -Specific Gravity (Method B)	ASTM D 792	0.902	sp gr 23/23°C
Melt flow rate (230°C/2.16kg)	ASTM D 1238	0.450	g/10 min
Mechanical			
Tensile Strength @ Yield (2 in/min) (50 mm/min)	ASTM D 638	4000 28	psi MPa
Flexural Modulus (0.05 in/min, 1% Secant, Procedure A) (mm/min, 1% Secant, Procedure A)	ASTM D 790	160000 1120	psi MPa
Tensile Elongation @ Yld	ASTM D 638	11	%
Impact			
Notched izod impact (73 °F, Method A) (23 °C, Method A)	ASTM D 256	No Break No Break	ft-lb/in J/m

Hardness

Rockwell Hardness (R-Scale)	ASTM D 785	80
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Thermal

DTUL @66psi - Unannealed	ASTM D 648	87.8	°C
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Notes

Typical properties; not to be construed as specifications.

Additional Properties

Drop Weight Impact Strength, Basell Test Method, -29°C: 21 ft-lbs

AUTOMOTIVE SPECIFICATIONS (NATURAL COLOR):

DaimlerChrysler Corporation:

MS-DB500 CPN 4002

Ford Motor Company:

ESA-M4D281-A, WSS-M4D932-A1

General Motors Corporation:

GMP.PP.021

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