



TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

Polypropylene 7823M

Technical Data Sheet
Polypropylene – Random Copolymer
Produced in the United States

Description

Clarity: Polypropylene 7823M exhibits superior clarity and produces molded parts with improved impact compared with parts molded from homopolymer polypropylene.

Easy Flow: 7823M exhibits exceptionally easy flow characteristics.

FDA: 7823M complies with all applicable FDA and USDA regulations and may be used under these provisions for food contact and packaging.

Processing: 7823M resin processes on conventional injection molding equipment with typical melt temperatures of 350°F-450°F (177°C-232°C).

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238 Condition “L”	g/10 min	30
Mechanical Properties			
Tensile	D-638	psi (MPa)	4,300 (30)
Elongation	D-638	%	11
Tensile Modulus	D-638	Psi (MPa)	160,000 (1,105)
Flexural Modulus	D-638	psi (MPa)	140,000 (965)
Izod Impact @ 73°F Notched	D-256A	ft.-lbs/in. (J/m)	1.4 (75)
Unnotched		ft.-lbs/in. (J/m)	No Break
Haze, 0.04” plaques	D-1002	%	9
Hardness	D-1706	Shore D	76
	D-785A	Rockwell R	84
Drop Impact, 0.125” plaques	API ⁽³⁾	in.lbs. (J)	155 (18)
Thermal Properties ⁽¹⁾⁽²⁾			
Melting Point	DSC	°F (°C)	293 (143)
Heat Deflection @ 66 Psi @ 4.64 kg/cm²	D-648	°F	190
		°C	88
Other Physical Properties			
Density	D-1505	g/cc	0.900

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

(2) MP determined with a DSC-2 Differential Scanning Calorimeter. Test procedure available upon request.

(3) Test procedure available upon request.

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