TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

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 Unnotched	D-256A	 ft.-lbs/in. (J/m) ft.-lbs/in. (J/m)	 1.4 (75) No Break
Haze, 0.04” plaques	D-1002	%	9
Hardness	D-1706 D-785A	Shore D Rockwell R	76 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/cm^2	D-648	 ˚F ˚C	 190 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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Polypropylene