Polypropylene M6823MZ

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

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Description

Polypropylene M6823MZ is an isotactic form of copolymer polypropylene made via TotalEnergies proprietary catalyst technology.

Applications: M6823MZ is a medium molecular weight material recommended for injection molding. However, due to its unique and interesting properties, other applications may exist.

Processing: M6823MZ has a narrower molecular weight distribution than conventional polypropylene.

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	30
Mechanical Properties(1)			
Tensile Modulus	D-638	psi (MPa)	180,000 (1,240)
Elongation	D-638	%	12
Flexural Modulus	D-780	psi (MPa)	173,000 (1,195)
Izod Impact Notched @ 73 ˚F	D-256A	ft.lb/in (J/m)	0.7 (37)
Haze, 0.04” plaques	D-1003	%	8
Thermal Properties(1)			
Melting Point	DSC(2)	˚F (˚C)	277 (136)
Heat Deflection @ 66 Psi @ 4.64 kg/cm^2	D-648	 ˚F ˚C	 192 89
Other Physical Properties			
Density	D-1505	g/cc	0.9

(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

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All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of TotalEnergies products must be guided by the users own methods for selection of proper formulation. TotalEnergies Petrochemicals & Refining USA Inc. disclaims any responsibility for misuse or misapplication of its products. TotalEnergies MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TotalEnergies' liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.