

Total Petrochemicals Polypropylene M6823MZ is an isotactic form of copolymer polypropylene made via Total Petrochemicals proprietary metallocene catalyst technology.

Clarity. M6823MZ incorporates the latest generation of clarification technology resulting in excellent cycle time and superior in thin-wall, multi-cavity molds.

FDA. M6823MZ complies with FDA regulations Title 21 CFR Section 177.1520 (c) 3.1 and may be used under these provisions for food contact and packaging.

Recommended 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 and is similar to controlled rheology materials. Processing temperatures should remain with a range from 390°F to 480°F.

<u>Resin Properties</u> ⁽¹⁾	<u>Typical Value</u>	<u>ASTM Method</u>
Melt Flow, g/10 min.	30	D-1238
Melt Point, °F (°C)	277 (136)	DSC ⁽²⁾
Haze, 0.04" plaques. %	6	D-1003

Mechanical Properties

Flexural Modulus, psi (M Pa)	173,000 (1,190)	D-780
Tensile Modulus, psi (M Pa)	180,000 (1,240)	D-638
Tensile Strength, psi (M Pa)	4,200 (29)	D-638
Elongation, %	12	D-638
Izod Impact @ 73°F		D-256A
Notched ft.lb/in	0.7 (37)	
(J/m)	145 (16.4)	API ⁽³⁾
Drop Impact, 0.125" plaques		
in.lbs. (J)		

Thermal Properties

Heat Deflection Temperature		
°F @ 66 psi	192	D-648
°C @ 4.64 kg/cm ²	89	

(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.

M6823MZ 10/05

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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 TOTAL products must be guided by the users own methods for selection of proper formulation. TOTAL PETROCHEMICALS USA, INC. disclaims any responsibility for misuse or misapplication of its products. TOTAL MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TOTAL'S 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.