

# TOTAL Polypropylene Lumicene® M 6823 MZ

Polypropylene Copolymer

TOTAL Refining & Chemicals

## Message:

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.

General Information			
Features	Copolymer Fast Molding Cycle Medium Molecular Weight		
Uses	Thin-walled Parts		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR)	30	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1240	MPa	ASTM D638
Tensile Strength	29.0	MPa	ASTM D638
Tensile Elongation (Break)	12	%	ASTM D638
Flexural Modulus	1190	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	37	J/m	ASTM D256A
Drop Impact Resistance - API (3.18 mm)	16.4	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	89.0	°C	ASTM D648
Melting Temperature	136	°C	DSC
Optical	Nominal Value	Unit	Test Method
Haze (1020 µm)	6.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	199 to 249	°C	

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