

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Description

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

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

Processing: Lumicene® 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⁾⁽²⁾			
Melting Point	DSC	°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