

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
<b>Rheological Properties</b>			
Melt Flow	D-1238	g/10 min	30
<b>Mechanical Properties<sup>(1)</sup></b>			
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
<b>Thermal Properties<sup>(1)(2)</sup></b>			
Melting Point	DSC	°F (°C)	277 (136)
Heat Deflection @ 66 Psi	D-648	°F	192
@ 4.64 kg/cm <sup>2</sup>		°C	89
<b>Other Physical Properties</b>			
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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