



Polypropylene Lumicene® M6823MZ

Technical Data Sheet
Metallocene Isotactic Propylene Polymer

Produced in the United States

Description

Polypropylene Lumicene® M6823MZ is an isotactic form of copolymer polypropylene made via TOTAL 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	kpsi (M Pa)	180 (1240)
Elongation	D-638	%	12
Flexural Modulus	D-780	kpsi (M Pa)	173 (1190)
Izod Impact @ 73 °F	D-256A	Notched ft.lb/in (J/m)	0.7 (37)
Thermal Properties⁽¹⁾			
Melting Point	DSC ⁽²⁾	°F (°C)	277 (136)
Heat Deflection at 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.