

TOTAL Polyethylene Lumicene® M 3583 UV (US)

Metallocene Medium Density Polyethylene

TOTAL Refining & Chemicals

Message:

Characteristics: Lumicene® mPE M3583 UV is a second generation metallocene medium density polyethylene (mMDPE) with hexene as the comonomer. Lumicene mPE M3583 UV is a natural grade available in 35-mesh powder form. Lumicene mPE M3583 UV is formulated for applications requiring UV stability. Consult Technical Service for details.

Applications: Lumicene® mPE M3583 UV is intended for the manufacture of rotomolded items. Its specific molecular structure ensures superior mechanical properties, outstanding optical properties (gloss), improved dimensional stability, and easy processing.

General Information			
Features	Good Gloss		
	Optical		
	hexene comonomer		
	Good UV resistance		
	Workability, good		
	Medium density		
Appearance	Natural color		
Forms	Powder		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	6.0	g/10 min	ISO 1133
190°C/21.6 kg	140	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	18.0	MPa	ISO 527-2
Fracture	11.0	MPa	ISO 527-2
Tensile Strain (Break)	> 700	%	ISO 527-2
Flexural Modulus	700	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	121	°C	ISO 306
Melting Temperature	123	°C	ISO 11357-3

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