# TOTAL Polyethylene Lumicene® M 3581 UV

## (US)

Metallocene Medium Density Polyethylene

#### TOTAL Refining & Chemicals

#### Message:

Characteristics: Lumicene ® mPE M3581 UV is a second generation metallocene medium density polyethylene (mMDPE) with hexene as comonomer. Lumicene mPE M3581 UV is a natural grade available in pellet form.

Applications: Lumicene ® mPE M3581 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		
	Workability, good		
	Medium density		
Appearance	Natural color		
Forms	Particle		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16			
kg)	6.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693B
10% Igepal, F50	300	hr	ASTM D1693B
100% Igepal, F50	> 1000	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	641	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	17.9	MPa	ASTM D638
Fracture	11.7	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	8.0	%	ASTM D638
Fracture	340	%	ASTM D638
Flexural Modulus - 1% Secant	689	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	115	°C	ASTM D1525
Peak Melting Temperature	122	°C	ASTM D3417
Additional Information	Nominal Value		

#### UV Rating

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#### Recommended distributors for this material

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