

# TOTAL Polyethylene Lumicene® M 4043 UV (US)

Metallocene Medium Density Polyethylene

TOTAL Refining & Chemicals

Message:

Characteristics: Lumicene® mPE M4043 UV is a new generation metallocene medium density polyethylene (mMDPE) with hexene as the comonomer. Lumicene mPE M4043 UV is a natural grade available in a 35-mesh powder form. Lumicene mPE M4043 UV is formulated for applications requiring UV stability. Consult Technical Service for details.

Applications: Lumicene® mPE M4043 UV is intended for the manufacture of rotomolded items.

General Information			
Features	hexene comonomer		
	Good UV resistance		
	Medium density		
Appearance	Natural color		
Forms	Powder		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	21.0	MPa	ISO 527-2
Fracture	21.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	11	%	ISO 527-2
Fracture	800	%	ISO 527-2
Flexural Modulus	730	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	> 150	kJ/m <sup>2</sup>	ISO 179
23°C	> 150	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	126	°C	ISO 11357-3

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