

TOTAL Polyethylene Lumicene® M 4041 UV (US)

Metallocene Medium Density Polyethylene

TOTAL Refining & Chemicals

Message:

Characteristics: Lumicene® mPE M4041 UV is a new generation metallocene medium density polyethylene (mMDPE) with hexene as comonomer. Lumicene mPE M4041 UV is a natural grade available in pellet form.

Applications: Lumicene® mPE M4041 UV is intended for the manufacture of rotomolded items.

General Information			
Features	hexene comonomer		
	Medium density		
Appearance	Natural color		
Forms	Particle		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693B
10% Igepal, F50	155	hr	ASTM D1693B
100% Igepal, F50	> 900	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	807	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	20.7	MPa	ASTM D638
Fracture	11.7	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	8.0	%	ASTM D638
Fracture	300	%	ASTM D638
Flexural Modulus - 1% Secant	883	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	119	°C	ASTM D1525
Peak Melting Temperature	126	°C	ASTM D3417
Additional Information	Nominal Value		
UV Rating	> 16		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT