

Marvel™ M10

Linear Low Density Polyethylene
SCG Chemicals Co., Ltd.

Message:

M3804RW and Marvel M10 are linear-low density polyethylene (LLDPE) for rotational molding applications. M10 is a color compounded form, With a balance of impact properties, stiffness, and processability. Both of them are suitable for rotational molding of storage tanks and general applications.

General Information			
Features	Food Contact Acceptable		
	Good Color Stability		
	Good Processability		
	Good Stiffness		
	Good Toughness		
Uses	Automotive Applications		
	Industrial Containers		
	Lawn and Garden Equipment		
	Septic Tanks		
	Tanks		
Agency Ratings	TIS 816-2538		
	FDA 21 CFR 177.1520(c)		
Appearance	Colors Available		
Forms	Powder		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	20.0	MPa	
Break	18.0	MPa	
Tensile Elongation ² (Break)	800	%	ASTM D638
Flexural Modulus	700	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
ARM Impact (-40°C, 5.00 mm)	94.9	J	

Crystallization Point	113	°C	ASTM D2117
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	70.0	°C	ASTM D648
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	120	°C	ASTM D1525
Melting Temperature	125	°C	ASTM D2117
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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Recommended distributors for this material

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

