Marvel[™] M90

Linear Low Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

M9001RW and Marvel M90 are linear-low density polyethylene (LLDPE) for rotational molding applications. M90 is a color compounded form. With excellent stiffness good impact strength and toughness. Both of them are suitable for rotational molding of large water tanks and other general rotational molded articles.

General Information					
Features	Rigidity, high				
	Rigid, good				
	Impact resistance, good				
	Good UV resistance				
	Workability, good				
	Good color stability				
	Good toughness				
	Compliance of Food Exposure				
Uses	Industrial container				
0303	Agricultural water tank				
	Water tank				
Agency Ratings	FDA 21 CFR 177.1520(c)				
Appearance	Black				
	Available colors				
Forms	Powder				
	Particles				
Processing Method	rotomolding				
Physical	Nominal Value	Unit	Test Method		
Density	0.939	g/cm³	ASTM D1505		
Melt Mass-Flow Rate (MFR) (190°C/2.16					
kg)	3.2	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	21.0	MPa	ASTM D638		
Fracture	28.0	MPa	ASTM D638		
Tensile Elongation ² (Break)	1100	%	ASTM D638		

Flexural Modulus	750	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
ARM Impact ³ (-40°C)	122	J	ARM	
Crystallization Point	113	°C	ASTM D2117	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load (0.45				
MPa, Unannealed)	75.0	°C	ASTM D648	
Brittleness Temperature	< -60.0	°C	ASTM D746	
Vicat Softening Temperature	122	°C	ASTM D1525	
Melting Temperature	127	°C	ASTM D2117	
Additional Information				
UV Resistance Level: ASTM 2565: 8Typical Oven Temperature: 250 to 300°C				
NOTE				
1.	50 mm/min			
2.	50 mm/min			
3.	5 mm rotomolded sample			

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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

