Marvel[™] M20

Linear Low Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

M3804RU and Marvel M20 are linear-low density polyethylene (LLDPE) for rotational molding applications. Marvel M20 is a color-compounded polyethylene specifically developed for rotational molding applications. With a balance of stiffness and toughness, a large processing window and a wide variety of color selection. Marvel M20 is the recommended material for toys, playground equipment, and other general rotomolded articles.

General Information				
Features	Rigid, good			
	Workability, good			
	Good color stability			
	Good toughness			
	Compliance of Food Exposure			
Uses	Water Sports Equipment			
	Safety equipment			
	Lawn and Garden Equipment			
	Industrial container			
	Architectural application field			
	Application in Automobile Field			
	Toys			
Agency Ratings	FDA 21 CFR 177.1520(c)			
Appearance	Available colors			
Forms	Powder			
Processing Method	rotomolding			
Physical	Nominal Value	Unit	Test Method	
Density	0.938	g/cm³	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	ASTM D638	
Fracture	18.0	MPa	ASTM D638	
Tensile Elongation ² (Break)	800	%	ASTM D638	
Flexural Modulus	700	MPa	ASTM D790	
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	
Crystallization Point	113	°C	ASTM D2117	
Additional Information				
ARM Impact Strength, ARM MEthod, -40°C, 5mm, Rotomolded: 19 J/mmTypical Oven Temperature: 250 to 300°C				
NOTE				
1.	50 mm/min			
2.	50 mm/min			

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