

Marvel™ M40

Linear Low Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

M3204RU and Marvel M30, M40 are linear-low density polyethylene (LLDPE) for rotational molding applications. M40 is a color compounded form. Provide an excellent impact property with a balancing of stiffness and processability. Both of them are suitable for rotational molding of container and general applications

General Information			
Features	Low density Rigid, good Workability, good Good color stability Low temperature impact resistance Good toughness Compliance of Food Exposure		
Uses	Water Sports Equipment Safety equipment Industrial container Architectural application 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	0.932	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)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	17.0	MPa	ASTM D638
Fracture	25.0	MPa	ASTM D638
Tensile Elongation ² (Break)	1000	%	ASTM D638
Flexural Modulus	580	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	64.0	°C	ASTM D648
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	110	°C	ASTM D1525
Crystallization Point	110	°C	ASTM D2117

Additional Information

ARM Impact Strength, ARM MMethod, -40°C, 5mm, Rotomolded: 25 J/mmUV Resistance Level: ASTM 2565: 8Typical Oven Temperature: 250 to 300°C

NOTE

1. 50 mm/min
2. 50 mm/min

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