

EL-Lene™ M3804RU

Linear Low Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

M3804RU/RUP and Marvel M20 are linear-low density polyethylene (LLDPE) for rotational molding applications. M3804RU is a natural color available in powder and pellet form, whereas M20 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	Rigidity, high		
	Rigid, good		
	Impact resistance, good		
	Workability, good		
	Compliance of Food Exposure		
Uses	Industrial container		
	Industrial water tank		
	Septic tank		
	Outdoor application		
	Water tank		
Agency Ratings	FDA 21 CFR 177.1500(c)(3)(4)		
Appearance	Natural color		
Forms	Powder		
	Particle		
Processing Method	rotomolding		
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	ASTM D638
Fracture	18.0	MPa	ASTM D638
Tensile Elongation ² (Break)	800	%	ASTM D638
Bending modulus-Transverse flow ³	700	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 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/mmOven Temperature: 250 to 300°C

NOTE

1. 50 mm/min
2. 50 mm/min
3. 2.0 mm/min

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