

EL-Lene™ M3804RW

Linear Low Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

M3804RW/RWP is a linear-low density polyethylene with a balance of impact properties, stiffness, and processability. M3804RW/RWP is suitable for rotational molding of storage tanks and general applications. It contains high level of UV stabilizer to give protection for outdoor use.

General Information			
Additive	UV stabilizer		
Features	Rigidity, high		
	Rigid, good		
	Impact resistance, good		
	Good UV resistance		
	Workability, good		
	Compliance of Food Exposure		
Uses	Industrial container		
	Industrial water tank		
	Septic tank		
	Outdoor application		
	Water tank		
Agency Ratings	FDA 21 CFR 177.1520		
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
Impact	Nominal Value	Unit	Test Method

ARM Impact ⁴ (-40°C)	94.9	J	ARM
Crystallization Point	113	°C	ASTM D2117
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

Additional Information

UV Resistance Level, ASTM D2565: 8Oven Temperature: 250 to 300°C

NOTE

1. 50 mm/min
2. 50 mm/min
3. 2.0 mm/min
4. 5 mm rotomolded sample

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