

EL-Lene™ M9001RW

Linear Low Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

M9001RW and Marvel M90 are linear-low density polyethylene (LLDPE) for rotational molding applications. M9001RW is a natural color available in powder and pellet 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		
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	Impact resistance, good		
	Workability, good		
	Good toughness		
	Compliance of Food Exposure		
Uses	Industrial container		
	Industrial water tank		
	Agricultural 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	0.939	g/cm ³	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
Bending modulus-Transverse flow ³	750	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
ARM Impact ⁴ (-40°C)	122	J	ARM
Crystallization Point	113	°C	ASTM D2117

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 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 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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