

EL-Lene™ M735RU

Linear Low Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

M735RU is linear-low density polyethylene (LLDPE) for rotational molding applications. M735RU is a natural color available in powder and pellet form. With a balance of impact properties, stiffness, and processability. It's suitable for rotational molding of container and general applications.

General Information			
Features	Rigidity, high		
	Rigid, good		
	Highlight		
	Impact resistance, high		
	Workability, good		
	Good toughness		
	Compliance of Food Exposure		
	Excellent appearance		
Uses	Lawn and Garden Equipment		
	Application in Automobile Field		
	Container		
	Outdoor application		
	General		
Agency Ratings	FDA 21 CFR 177.1520(c)		
Appearance	Natural color		
Forms	Powder		
	Particle		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	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	19.0	MPa	ASTM D638
Fracture	20.0	MPa	ASTM D638
Tensile Elongation ² (Break)	800	%	ASTM D638
Bending modulus-Transverse flow ³	650	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
ARM Impact ⁴ (-40°C)	99.0	J	ARM
Crystallization Point	110	°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	115	°C	ASTM D1525
Melting Temperature	124	°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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