Marvel™ M70

Polyethylene

SCG Chemicals Co., Ltd.

Message:

M735RW and Marvel M70 are linear-low density polyethylene (LLDPE) for rotational molding applications. M70 is a color compounded form. With a balance of impact properties, stiffness, and processability. It's suitable for rotational molding of container and general applications.

General Information			
Additive	UV stabilizer		
Features	Rigid, good Highlight Impact resistance, high Good UV resistance Workability, good Fast molding cycle Good color stability Good toughness Compliance of Food Exposure Excellent appearance		
Uses	Lawn and Garden Equipment Industrial container Application in Automobile Field Container Toys		
Agency Ratings	FDA 21 CFR 177.1520(c)		
Appearance	Black Available colors		
Forms	Powder Particles		
Processing Method	rotomolding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.935	g/cm³	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
Flexural Modulus	650	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
ARM Impact [3] (-40°C)	99.0	J	ARM
Crystallization Point	110	°C	ASTM D2117
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 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 2565: 8Typical Oven Temperature: 250 to 300°C			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	5 mm rotomolded sample		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China