

KMI PE KM-U-143sMR

Medium Density Polyethylene

KMI Group, Inc.

Message:

KM-U-143sMR is an octane copolymer MDPE Rotational Molding Resin that contains processing antioxidant and a UV stabilizer. This grade shows exceptional low temperature impact properties, low viscosity, and easy mold release.

Applications:

Recreational and leisure equipment, containers, septic tanks, and fish boxes

General Information			
Additive	Antioxidation		
	UV stabilizer		
Features	Low viscosity		
	Copolymer		
	Antioxidation		
	Good UV resistance		
	Low temperature impact resistance		
	Good demoulding performance		
	Octene comonomer		
	Medium density		
Uses	Septic tank		
	Container		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.941	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.0	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus	827	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
ARM Impact - Low Temperature			ARM
3.18 mm	94.9	J	ARM
6.35 mm	230	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, not annealed	62.0	°C	ASTM D648
1.8 MPa, not annealed	43.0	°C	ASTM D648
Melting Temperature	126	°C	DSC

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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

