

KMI PE KM-20U542sMR-XE

High Density Polyethylene

KMI Group, Inc.

Message:

KM-20U542sMR-XE is an octene copolymer sHDPE Developmental Rotational Molding Resin that contains processing antioxidant and a UV stabilizer. This grade shows exceptional low temperature impact properties, high stiffness, superior whiteness, easy mold release and a broad application for use.

Applications:

Septic tanks, very large tanks (up to 20,000 gallons), Agricultural tanks as small as 3,000 gallons.

General Information			
Additive	Antioxidation		
	UV stabilizer		
Features	Rigidity, high		
	High density		
	Copolymer		
	Antioxidation		
	Good UV resistance		
	Low temperature impact resistance		
	Good demoulding performance		
	Octene comonomer		
Uses	Septic tank		
	Agricultural water tank		
	Water tank		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.945	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.7	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	22.8	MPa	ASTM D638
Tensile Elongation (Yield)	11	%	ASTM D638
Flexural Modulus	1030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
ARM Impact - Low Temperature (6.35 mm)	244	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	63.0	°C	ASTM D648

1.8 MPa, not annealed	43.0	°C	ASTM D648
Melting Temperature	127	°C	DSC

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