

# KMI PE KM-U0470-RT

Medium Density Polyethylene

KMI Group, Inc.

Message:

KM-U0470-RT is a hexane copolymer MDPE Rotational Molding Resin that contains processing antioxidant and a UV stabilizer. This grade shows good impact properties and excellent processability.

Applications:

Lightweight Parts, toys, complex custom parts, home and gardening items, mailboxes

General Information			
Additive	Antioxidation		
	UV stabilizer		
Features	Copolymer		
	hexene comonomer		
	Antioxidation		
	Impact resistance, good		
	Good UV resistance		
	Workability, good		
	Medium density		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	110	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.7	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus	949	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
ARM Impact - Low Temperature			ARM
3.18 mm	61.0	J	ARM
6.35 mm	197	J	ARM
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	60.0	°C	ASTM D648
1.8 MPa, not annealed	42.0	°C	ASTM D648
Melting Temperature	126	°C	DSC

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