

KMI PE KM U-542sMR HDPE

High Density Polyethylene

KMI Group, Inc.

Message:

KM U-542sMR HDPE
Octene Copolymer
sHDPE Rotational Molding Resin

It has good low temperature impact properties, high stiffness, and a broad processing window. It is very white and enhances part appearance. It is resistant to gas fading.
Characteristics: The product contains additives of processing antioxidants and UV stabilizers. It is mainly used in large tanks, septic tanks, and agricultural tanks.

| General Information | | | |
|------------------------------------------------|-----------------------------------|-------------------|-------------|
| Additive | Antioxidation | | |
| | UV stabilizer | | |
| Features | UV Stabilized | | |
| | Rigidity, high | | |
| | High density | | |
| | Copolymer | | |
| | Resistance to gas fading | | |
| | Antioxidation | | |
| | Workability, good | | |
| | Low temperature impact resistance | | |
| | Octene comonomer | | |
| Uses | Septic tank | | |
| | Agricultural water tank | | |
| | Water tank | | |
| Appearance | White | | |
| 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 (F50) | > 1000 | hr | ASTM D1693 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 23.0 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 11 | % | ASTM D638 |
| Flexural Modulus - 1% Secant | 1030 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |

| ARM Impact - Low Temperature (6.35 mm) | > 245 | 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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