

MARPOL® LL6R 802

Marco Polo International, LLC - Linear Low Density Polyethylene

Wednesday, November 29, 2023

General Information

Product Description

MARPOL LL6R 802 is a polyethylene resin designed for rotational applications that require high stiffness, exceptional low temperature impact properties and excellent ESCR performance. This resin is UV stabilized, has a broad processing window and superior whiteness for improved part appearance.

Recommended Applications: Very large tanks, septic and agricultural tanks

| Material Status | Commercial: Active | | |
|-----------------|---|---|-----------------|
| Availability | Africa & Middle East Asia Pacific | EuropeLatin America | North America |
| Additive | UV Stabilizer | | |
| Features | High ESCR (Stress Crack Resist.)High Stiffness | Low Density Low Temperature Impact Resistance | • UV Stabilized |
| Uses | Agricultural Tanks | Septic Tanks | • Tanks |
| Appearance | • White | | |

| ASTM & ISO Properties ¹ | | | | |
|---|---------------|-------------------|-------------|--|
| Physical | Nominal Value | Unit | Test Method | |
| Density / Specific Gravity | 0.942 | g/cm ³ | ASTM D792 | |
| Melt Mass-Flow Rate (190°C/2.16 kg) | 2.0 | g/10 min | ASTM D1238 | |
| Environmental Stress-Cracking Resistance (ESCR) (F50) | < 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 - 1% Secant | 1030 | MPa | ASTM D790 | |
| Thermal | Nominal Value | Unit | Test Method | |
| Deflection Temperature Under Load | | | ASTM D648 | |
| 0.45 MPa, Unannealed | 62.8 | °C | | |
| Deflection Temperature Under Load | | | ASTM D648 | |
| 1.8 MPa, Unannealed | 42.8 | °C | | |
| Melting Temperature | 127 | °C | | |

Notes

¹ Typical properties: these are not to be construed as specifications.



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