

Product Texts

M5002L is a Narrow MWD HDPE produced by the Spherilene Technology.

M5002L is suited for injection and extrusion-compression molded Caps and Closure application.

The precise control of morphology & MWD during polymerization confers superior processability and improved performance properties compared to conventional HDPE grades.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|--|--------------|-------------|----------------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 3 | g/10min | ASTM D 1238 |
| Temperature | 190 | °C | - |
| Load | 2.16 | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|------------------------------|--------------|-------------|----------------------|
| ASTM Data | | | |
| Tensile Strength at Yield | 25 | MPa | ASTM D 638 |
| Tensile Strength at Break | 30 | MPa | ASTM D 638 |
| Elongation at Break | 700 | % | ASTM D 638 |
| Flexural Modulus | 950 | MPa | ASTM D 790 |
| Shore D Hardness | 61 | - | ASTM D 2240 |
| Izod Impact notched, 1/8 in | 180 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|---------------------------|--------------|-------------|----------------------|
| ASTM Data | | | |
| DTUL @ 66 psi | 74 | °C | ASTM D 648 |
| Melting Temperature | 132 | °C | ASTM D 3418 |
| Vicat Temperature | 125 | °C | ASTM D 1525 |

| Other properties | Value | Unit | Test Standard |
|-------------------------|--------------|-------------------|----------------------|
| Density | 950 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|--|------------------|-------------|----------------------|
| Zone 1 | 160 - 190 | °C | - |

Characteristics

Processing

Injection Molding, Other Extrusion

Regional Availability

Asia Pacific