



TECHNICAL DATA SHEET (TDS)

HDPE BM02-50
HIGH DENSITY POLYETHYLENE

OVERVIEW: Outstanding environmental stress crack resistance, high impact strength, good extrusion characteristics.

Applications: blow molding resin

Complies with the specifications U.S FDA 21 CFR 177.1520.

ADDITIVE:

| Properties | Test Method | Units | Nominal Values |
|---|--------------|----------|----------------|
| Melt Index (190° C/2.16 Kg) | ASTM D1238 | g/10 min | 0.25 |
| Density g/cm³ | ASTM D792 | | 0.949 |
| Properties | | | |
| Tensile strength at yield | ASTM D638 | Psi/MPa | 3400/23 |
| Tensile strength at break | ASTM D638 | Psi/MPa | 4500/31 |
| Elongation at Break | ASTM D638 | % | 900 |
| Elongation at Yield | ASTM D638 | % | 8 |
| Flexural Modulus, 2% secant | ASTM D 790 B | Psi/MPa | 132000/910 |
| Environmental Stress Crack Resistance 122°f(50°),f50, 100% igepal® | ASTM D 1693 | Hrs. | 180 |
| Hardness, shore D | ASTM D 2240 | | 57 |
| Brittleness Temperature | ASTM D 746 | °F (°C) | <-76(<-24) |
| Deflection Temperature Under Load @66 psi/0.45 Mpa | ASTM D 640 | °F (°C) | 144(62) |

Physical properties measured on compression molded specimens

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