**JPHDPEHMW**

A high molecular weight, high density polyethylene copolymer

**Typical Material Properties**

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| General |  |  |
| Material Status | Commercial: Active |  |
| Availability | North America |  |
| Additive | Antioxidant |  |
| Features | Food Contact Acceptable | High ESCR (Stress Crack Resist.) |
|  | High Impact Resistance | High Molecular Weight |
|  | Medium Rigidity |  |
| Uses | Automotive Applications | Fuel Tanks |
|  | Blow Molding Applications | Sheet |
| Forms | Pellets |  |
| Processing Method | Blow Molding | Sheet Extrusion |
|  | Thermoforming |  |

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| Physical Properties | Nominal Values | Test Method |
| Density | 0.949 g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) |    | ASTM D1238 |
| 190°C/2.16 kg | 0.10 g/10 min |   |
| 190°C/21.6 kg | 10 g/10 min |   |
| Environmental Stress-Cracking Resistance (100% Igepal, Compression Molded) | 800 hr | ASTM D1693B |

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| Mechanical Properties |  |  |
| Tensile Strength (Yield, 73°F, Compression Molded) | 3800 psi | ASTM D638 |
| Tensile Elongation (Break, 73°F, Compression Molded) | 1000 % | ASTM D638 |
| Flexural Modulus - Tangent 1 (73°F, 0.125 in, Compression Molded) | 180000 psi | ASTM D790A |

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| Impact |  |  |
| Tensile Impact Strength |    | ASTM D1822 |
| -40°F, Compression Molded | 100 ft·lb/in² |   |
| 73°F, Compression Molded | 120 ft·lb/in² |   |

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| Thermal |  |  |
| Deflection Temperature Under Load (66 psi, Unannealed) | 160 °F | ASTM D648 |
| Brittleness Temperature | -105 °F | ASTM D746 |
| Vicat Softening Temperature | 250 °F | ASTM D1525 |
| CLTE - Flow  | 6.7E-5 in/in/°F | ASTM D696 |

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| Notes |  |  |
| 1Method I (3 point load) |  |  |