

Technical Datasheet 511 DP - BK402

- 1) **Product Description:**
Nucleated Medium Viscosity Acetal Homopolymer.
- 2) **Applications:**
Engineering applications such as auto parts, gears, etc.
- 3) **Typical data:**

| Property | Test method | Unit | Value* |
|---|-------------|------------------------|--------|
| Density | ISO 1183 | g/cm ³ | 1.42 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | ISO1133 | g/10 min | 14 |
| Melt Mass-Flow Rate (MVR) (190°C/2.16 kg) | ISO1133 | In ³ /10min | 0.793 |
| Molding Shrinkage Across Flow | ISO 294-4 | % | 1.8 |
| Flow | | % | 1.9 |
| Water Absorption 73°F (23°C), 24hr, 0.0787 in (2.00 mm) | ISO 62 | % | 0.90 |
| Equilibrium, 73 °F (23°C), 0.0787 in(2.00mm),50%RH | | % | 0.20 |
| Tensile Modulus | ISO 527-2 | psi | 493000 |
| Tensile Stress (Yield) | ISO 527-2 | psi | 10700 |
| Tensile Strain (Yield) | ISO 527-2 | % | 12 |
| Nominal Tensile Strain at Break | ISO 527-2 | % | 60 |
| Flexural Modulus | ISO 178 | psi | 464000 |
| Flexural Strength (3.5% Strain) | ISO 178 | psi | 12300 |
| Charpy Notched Impact Strength -22°F (-30°C) | ISO 179/1eA | ft.lb/in ² | 2.9 |
| 73 °F (23°C) | | ft.lb/in ² | 3.3 |
| Charpy Unnotched Impact Strength | ISO 179/1eU | ft.lb/in ² | 76 |
| | | ft.lb/in ² | 76 |
| Heat Deflection Temperature 66psi (0.45 MPa), Unannealed | ISO 75-2/B | °F | 325 |
| 264 psi (1.8 MPa), Unannealed | ISO 75-2/A | °F | 221 |
| Melting Temperature ⁴ | ISO 11357-3 | °F | 352 |

* Typical values not to be construed as specifications.