

DURACON® YF-5

Polyplastics - Acetal (POM) Copolymer

General Information

Product Description

High Sliding

PTFE Filled

General

| | |
|-------------------------------|---|
| Material Status | • Commercial: Active |
| Availability | • Africa & Middle East • Europe • North America • Asia Pacific • Latin America |
| Additive | • PTFE Lubricant |
| Features | • Copolymer • Low Friction • Lubricated |
| UL File Number | • E45034 |
| Forms | • Pellets |
| Processing Method | • Injection Molding |
| Part Marking Code (ISO 11469) | • >POM+PTFE< |

 Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|---|-----------------|
| Density | 1.43 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 9.0 | g/10 min | ISO 1133 |
| Melt Volume-Flow Rate (MVR) (190°C/2.16 kg) | 8.0 | cm ³ /10min | ISO 1133 |
| Molding Shrinkage ² | | | ISO 294-4 |
| Across Flow : 0.0787 in | 2.1 | % | |
| Flow : 0.0787 in | 2.4 | % | |
| Water Absorption (24 hr, 73°F, 0.0394 in) | 0.50 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 341000 | psi | ISO 527-1 |
| Tensile Stress | 7980 | psi | ISO 527-2 |
| Nominal Tensile Strain at Break | 17 | % | ISO 527-2 |
| Flexural Modulus | 319000 | psi | ISO 178 |
| Flexural Stress | 10900 | psi | ISO 178 |
| Coefficient of Friction | | | JIS K7218 |
| Dynamic ³ | 0.32 | | |
| vs. Steel - Dynamic ⁴ | 0.30 | | |
| Wear Factor | | | JIS K7218 |
| 71 psi, 59 ft/min ⁵ | < 0.50 | 10 ⁻¹⁰ in ³ ·min/ft·lb·hr | |
| 71 psi, 59 ft/min ⁶ | 30 | 10 ⁻¹⁰ in ³ ·min/ft·lb·hr | |
| 8.7 psi, 30 ft/min ⁷ | 990 | 10 ⁻¹⁰ in ³ ·min/ft·lb·hr | |
| 8.7 psi, 30 ft/min ⁸ | 1300 | 10 ⁻¹⁰ in ³ ·min/ft·lb·hr | |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (73°F) | 1.9 | ft·lb/in ² | ISO 179/1eA |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 189 | °F | ISO 75-2/A |
| CLTE - Flow (73 to 131°F) | 6.7E-5 | in/in/°F | Internal Method |
| CLTE - Transverse (73 to 131°F) | 6.7E-5 | in/in/°F | Internal Method |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+16 | ohms | IEC 60093 |



| | | | |
|-------------------------------|----------------------|-------------|--------------------|
| Volume Resistivity | 1.0E+14 | ohms·cm | IEC 60093 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | | HB | UL 94 |
| Additional Information | Nominal Value | Unit | Test Method |
| Color Number | | CF2001 | |

Notes

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

² 60x60x2mmt, Cavity Pressure 60 MPa

³ vs M90-44, 0.06 MPa, 15 cm/s

⁴ 0.49 MPa, 30 cm/s

⁵ vs C-Steel, Steel Side

⁶ vs C-Steel, Material Side

⁷ vs M90-44, Material Side

⁸ vs M90-44, M90-44 Side

