

DURACON® SX-35

Polyplastics - Acetal (POM) Copolymer

General Information

Product Description

Flexible

Lower Noise

General

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

 Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|---|-----------------|
| Density | 1.24 | g/cm ³ | ISO 1183 |
| Molding Shrinkage ² | | | ISO 294-4 |
| Across Flow : 0.0787 in | 1.3 | % | |
| Flow : 0.0787 in | 1.3 | % | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 131000 | psi | ISO 527-1 |
| Tensile Stress | 3770 | psi | ISO 527-2 |
| Nominal Tensile Strain at Break | 25 | % | ISO 527-2 |
| Flexural Modulus | 116000 | psi | ISO 178 |
| Flexural Stress | 4640 | psi | ISO 178 |
| Coefficient of Friction | | | JIS K7218 |
| Dynamic ³ | 0.45 | | |
| vs. Steel - Dynamic ⁴ | 0.52 | | |
| Wear Factor | | | JIS K7218 |
| 71 psi, 59 ft/min ⁵ | < 0.50 | 10 ⁻¹⁰ in ³ ·min/ft·lb·hr | |
| 8.7 psi, 30 ft/min ⁶ | 150 | 10 ⁻¹⁰ in ³ ·min/ft·lb·hr | |
| 71 psi, 59 ft/min ⁷ | 300 | 10 ⁻¹⁰ in ³ ·min/ft·lb·hr | |
| 8.7 psi, 30 ft/min ⁸ | 350 | 10 ⁻¹⁰ in ³ ·min/ft·lb·hr | |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (73°F) | 4.8 | ft·lb/in ² | ISO 179/1eA |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 156 | °F | ISO 75-2/A |
| CLTE - Flow (73 to 131°F) | 6.1E-5 | in/in/°F | Internal Method |
| CLTE - Transverse (73 to 131°F) | 9.4E-5 | in/in/°F | Internal Method |
| Electrical | Nominal Value | Unit | Test Method |
| Electric Strength (0.118 in) | 640 | V/mil | IEC 60243-1 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | HB | | UL 94 |
| Additional Information | Nominal Value | Unit | Test Method |
| Color Number | CF2002 | | |



Notes

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

² 60x60x20mmt, 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 M90-44, M90-44 Side

⁷ vs C-Steel, Material Side

⁸ vs M90-44, Material Side

