THERMOLAST® K TP6CDE (Series: EX)

Thermoplastic Elastomer

KRAIBURG TPE

Message:

The EX Series is your material solution for extrusion applications such as door seals and window gaskets. The compounds are available in natural and black colors. Typical applications Edge guards Profiles for furniture Seals for windows and doors Material advantages Alternative material to PVC-P Easy coloring (compounds in natural colors) Easy to extrude Excellent mechanical properties Excellent weldabililty Halogen-free No interaction with other materials (e.g. PVC-U, PP, PS, ABS, POM, PA, PC, PMMA) Recyclable Resistant to acrylic paints

| General Information | | | |
|---|---------------------|-------|-------------|
| Features | Good Colorability | | |
| | Halogen Free | | |
| | Recyclable Material | | |
| | Weldable | | |
| | | | |
| Uses | Furniture | | |
| | Gaskets | | |
| | Profiles | | |
| | Seals | | |
| | | | |
| Appearance | Natural Color | | |
| Processing Method | Extrusion | | |
| | Injection Molding | | |
| | | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.16 | g/cm³ | ISO 1183 |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore A) | 55 | | ISO 7619 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress ¹ (Yield) | 5.50 | MPa | ISO 37 |
| Tensile Elongation ² (Break) | 700 | % | ISO 37 |
| Tear Strength ³ | 22 | kN/m | ISO 34-1 |
| Compression Set ⁴ | | | ISO 815 |
| | | | |

| -25°, 24 hr70%23°C, 72 hr18%70°C, 24 hr50%Fxtrusion50%ExtrusionNominal ValueUnitDrying Temperature60.0 to 80.0°CDrying Time20.to 4.0hrCylinder Zone 1 Temperature140°CCylinder Zone 2 Temperature150°CDrying Temperature160°CDrying Temperature80 to 190°CDrying Temperature100 to 200 mm/minDrying Temperature192 S200 mm/min1.Type S2, 200 mm/min3.Method Bk, Angle (Nicked) | | | | |
|--|-----------------------|---------------------------|------|--|
| T0°C, 24 hr50%ExtrusionNominal ValueUnitDrying Temperature60.0 to 80.0°CDrying Time2.0 to 4.0hrCylinder Zone 1 Temp.140°CCylinder Zone 3 Temp.150°CDie Temperature160°CNOTEIsto 190°C1.Type S2, 200 mm/min2.Type S2, 200 mm/min | -25°C, 24 hr | 70 | % | |
| ExtrusionNominal ValueUnitDrying Temperature600 to 80.0°CDrying Time2.0 to 4.0hrCylinder Zone 1 Temp.140°CCylinder Zone 2 Temp.150°CDie Temperature160°CDie Temperature180 to 190°CNOTE19e S2.200 mm/min2.2.Type S2.200 mm/min | 23°C, 72 hr | 18 | % | |
| Drying Temperature 60.0 to 80.0 °C Drying Time 2.0 to 4.0 hr Cylinder Zone 1 Temp. 140 °C Cylinder Zone 2 Temp. 150 °C Cylinder Zone 3 Temp. 160 °C Die Temperature 180 to 190 °C NOTE Type S2, 200 mm/min °C 2. Type S2, 200 mm/min °C | 70°C, 24 hr | 50 | % | |
| Drying Time2.0 to 4.0hrCylinder Zone 1 Temp.140°CCylinder Zone 2 Temp.150°CCylinder Zone 3 Temp.160°CDie Temperature180 to 190°CNOTEType S2, 200 mm/min12.Type S2, 200 mm/min | Extrusion | Nominal Value | Unit | |
| Cylinder Zone 1 Temp.140°CCylinder Zone 2 Temp.150°CCylinder Zone 3 Temp.160°CDie Temperature180 to 190°CNOTE1Type 52, 200 mm/min2.Type 52, 200 mm/min | Drying Temperature | 60.0 to 80.0 | °C | |
| Cylinder Zone 2 Temp.150°CCylinder Zone 3 Temp.160°CDie Temperature180 to 190°CNOTEType S2, 200 mm/min1.2.Type S2, 200 mm/min | Drying Time | 2.0 to 4.0 | hr | |
| Cylinder Zone 3 Temp.160°CDie Temperature180 to 190°CNOTEType S2, 200 mm/minType S2, 200 mm/min2.Type S2, 200 mm/minCommon Section Secti | Cylinder Zone 1 Temp. | 140 | °C | |
| Die Temperature 180 to 190 °C NOTE Type S2, 200 mm/min Type S2, 200 mm/min 2. Type S2, 200 mm/min | Cylinder Zone 2 Temp. | 150 | °C | |
| NOTE Type S2, 200 mm/min 2. Type S2, 200 mm/min | Cylinder Zone 3 Temp. | 160 | °C | |
| Type S2, 200 mm/min 2. Type S2, 200 mm/min | Die Temperature | 180 to 190 | °C | |
| 2. Type S2, 200 mm/min | NOTE | | | |
| | 1. | Type S2, 200 mm/min | | |
| 3. Method Bb, Angle (Nicked) | 2. | Type S2, 200 mm/min | | |
| | 3. | Method Bb, Angle (Nicked) | | |
| 4. Method A | 4. | Method A | | |

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