

TECHNICAL DATA SHEET

KYNAR® 370

FLUORINATED HOMOPOLYMER PELLETT

KYNAR® resins are fluorinated thermoplastic homopolymers. The properties are the same as standard grade: chemical resistance, resistance to UV, low permeation, high purity, excellent mechanical behavior with a higher HDT This grade is especially modified in order to have a reduced mold shrinkage, low thermal expansion factor Moreover, this grade has an increased thermal and electrical conductivity This grade is available as pellet form for injection, extrusion, compression

DESIGNATION

PVDF

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

RHEOLOGICAL PROPERTIES

| 속성 | 값 | 테스트 표준 |
|--|----------------|------------|
| Melt viscosity, 230°C (445°F) at 100 s-1 | 8 - 13 kPo | ASTM D3835 |
| Shrinkage, Normal (t+24h) | 0.7 % | ISO 294-4 |
| Shrinkage, Parallel (t+24h) | 0.7 % | ISO 294-4 |
| Melt flow index (MFR), 235°C / 5 kg (455°F / 11 lb) | 5 - 17 g/10min | ASTM D1238 |
| Melt volume flow rate (MVR), 230°C / 3.8 kg (445°F / 8.3 lb) | 5.8 cm³/10min | ISO 1133 |

MECHANICAL PROPERTIES

| 속성 | 값 | 테스트 표준 |
|---|---------------------|------------|
| Tensile modulus, 23°C (73°F) | 4135 MPa | ASTM D638 |
| Yield stress, 23°C (73°F) | 34.5 - 55.2 MPa | ASTM D638 |
| Yield strain, 23°C (73°F) | 0 - 4 % | ASTM D638 |
| Stress at break, 23°C (73°F) | 37.9 - 55.2 MPa | ASTM D638 |
| Flexural modulus, 23°C (73°F) | 5520 - 6890 MPa | ASTM D790 |
| Compression strength, 23°C (73°F) | 138 - 172 MPa | ASTM D695 |
| Izod impact unnotched strength, 23°C (73°F) | 0.267 - 0.534 kJ/m² | ASTM D256 |
| Izod impact notched strength, 23°C (73°F) | 0.04 - 0.0801 J/m | ASTM D256 |
| Hardness, Shore D | 74 - 79 | ASTM D2240 |
| Coefficient of friction dynamic vs steel, 23°C (73°F) | 0.12 | ASTM D1895 |
| Coefficient of friction static vs steel, 23°C (73°F) | 0.18 | ASTM D1894 |

KYNAR® 370

| 속성 | 값 | 테스트 표준 |
|--|--------------------|----------------|
| Glass transition temperature, 10°C/min | -40 °C | ISO 11357-1/-2 |
| Limiting oxygen index (LOI) | 44 % | ASTM D2863 |
| Coefficient of linear thermal expansion, 23°C (73°F) | 36 - 45 10E-6 / °K | ASTM D696 |
| Heat deflection temperature, 1.8 MPa | 120 °C | ISO 75-1/-2 |
| Heat deflection temperature, 1.8 MPa, 138°C/h | 110 - 127 °C | ASTM D648 |
| Heat deflection temperature, 0.45 MPa, 138°C/h | 132-149 °C | ASTM D648 |
| Melting temperature, 10°C/min | 170 °C | ISO 11357-1/-3 |

THERMAL PROPERTIES/ELECTRICAL PROPERTIES

| 속성 | 값 | 테스트 표준 |
|------------------------------|-------------|-----------|
| Dielectric constant, 1kHz | 28.8 - 33.5 | ASTM D150 |
| Relative permittivity, 100Hz | 33 | IEC 60250 |
| Dissipation factor, 100Hz | 610 E-4 | IEC 60250 |
| Dissipation factor | 0.06 - 0.08 | ASTM D150 |

OTHER PROPERTIES

| 속성 | 값 | 테스트 표준 |
|---|-------------------------------|--------|
| Specific gravity, 23°C (73°F) | 1.84 - 1.88 g/cm ³ | |
| Water absorption, Saturated in water at 23°C (73°F) | 0.02 % | ISO 62 |

SPECIAL CHARACTERISTICS

- Flame & smoke

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