

TECHNICAL DATA SHEET

KYNAR® POWERFLEX LBG POWDER

FLUORINATED COPOLYMER POWDER

Kynar Flex® resins are fluorinated thermoplastic copolymers.

Kynar Flex® LBG resin is a semi-crystalline copolymer. Kynar Flex® LBG is considered a high molecular weight VF2 based copolymers - specifically designed for application in the lithium ion battery market.

DESIGNATION

PVDF

DELIVERY FORM

• Powder

RHEOLOGICAL PROPERTIES

| 속성 | 값 | 테스트 표준 |
|--|-------------|--------|
| Melt flow index (MFR), 230°C / 21.6 kg (445°F / 47.6 lb) | 3-8 g/10min | |
| Melt viscosity, 230°C (445°F) at 100 s-1 | 34-38 kPo | |

MECHANICAL PROPERTIES

| 속성 | 값 | 테스트 표준 |
|---|----------------|----------------|
| Yield stress, 23°C (73°F) | 35 MPa | ISO 527-1/-2 |
| Yield strain, 23°C (73°F) | 10 % | ISO 527-1/-2 |
| Nominal strain at break, 23°C (73°F) | > 50 % | ISO 527-1/-2 |
| Elongation at break, 23°C (73°F) | >400 % | ASTM D638 |
| Flexural modulus, 23°C (73°F) | 1030 MPa | ASTM D790 |
| Charpy notched impact strength, 23°C (73°F) | no break kJ/m2 | ISO 179 1eA |
| 속성 | 값 | 테스트 표준 |
| Melting temperature, 10°C/min | 154 °C | ISO 11357-1/-3 |

OTHER PROPERTIES

| 속성 | 값 | 테스트 표준 |
|---|------------|----------|
| Water absorption, 23°C (73°F), immersion, equilibrium | 0.03 % | ISO 62 |
| Specific gravity, 23°C (73°F) | 1.78 g/cm³ | ASTM D92 |

SPECIAL CHARACTERISTICS

- Flame & smoke

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