

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

MAIN APPLICATIONS

- Battery Binder

DELIVERY FORM

- Powder

RHEOLOGICAL PROPERTIES

プロパティ	価値	テスト基準
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

プロパティ	価値	テスト基準
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

THERMAL PROPERTIES

プロパティ	価値	テスト基準
Melting temperature, 10°C/min	154 °C	ISO 11357-1/-3

OTHER PROPERTIES

プロパティ	価値	テスト基準
Water absorption, 23°C(73°F), immersion, equilibrium	0.03 %	ISO 62
Specific gravity, 23°C (73°F)	1.78 g/cm³	ASTM D92

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SPECIAL CHARACTERISTICS

- Flame & smoke

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