

KYNAR FLEX[®]

LBG

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.

PROPERTIES	VALUE	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	3.2	cm ³ /10min	ISO 1133
Temperature	232	°C	-
	450	°F	-
Load	21.6	kg	-
	47.6	lb	-
Melt Flow Rate	3 - 8	g/10min	ASTM D1238
Temperature	230	°C	-
Load	21.6	kg	-
Melt Viscosity, 230°C, 100 s ⁻¹	34 - 38	kPoise	ASTM D3835
MECHANICAL PROPERTIES			
Yield stress	35	MPa	ISO 527-1/-2
	5080	psi	
Tensile Strength at Yield, 73 °F	35	MPa	ASTM D638
	5080	psi	
Yield strain	10	%	ISO 527-1/-2
Nominal Strain at Break	>50	%	ISO 527-1/-2
Elongation at Break, 73 °F	≥400	%	ASTM D638
Flexural Modulus, 73 °F	1030	MPa	ASTM D790
	150000	psi	
Charpy Notched Impact Strength, +23°C	No Break	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	154	°C	ISO 11357-1/-3
Melting Point, 73 °F	151 - 157	°C	ASTM D3418
OTHER PROPERTIES			
Water Absorption	0.03	%	Sim. to ISO 62
Density	1780	kg/m ³	ISO 1183
	1.78	g/cm ³	
Specific Gravity, 73 °F	1.78	-	ASTM D792

KYNAR FLEX[®]

LBG

DELIVERY FORM	
Powder	
REGIONAL AVAILABILITY	
North America, Europe, Asia Pacific, South and Central America, Near East/Africa	