

# 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 VF<sub>2</sub> 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 <sup>3</sup> /10 min	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 <sup>-1</sup>	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 <sup>2</sup>	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	154	°C	ISO 11357-1/-3
Melting Point	151 - 157	°C	ASTM D3418
OTHER PROPERTIES			
Water Absorption, 23°C, immersion, equilibrium	0.03	%	ISO 62
Density	1780	kg/m <sup>3</sup>	ISO 1183
	1.78	g/cm <sup>3</sup>	
Specific Gravity, 73 °F	1.78	-	ASTM D792

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Source: automatically generated TDS from Material Database on 20-02-2024

# KYNAR FLEX<sup>®</sup>

## LBG

<b>DELIVERY FORM</b>	<b>Headquarters:</b> Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
Powder	
<b>REGIONAL AVAILABILITY</b>	
North America, Europe, Asia Pacific, South and Central America, Near East/Africa	Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com

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