KYNAR®

TECHNICAL DATA SHEET

KYNAR ULTRAFLEX® B

FLUORINATED COPOLYMER PELLET

KYNAR FLEX® resins are fluorinated thermoplastic copolymers.
KYNAR Ultraflex® resin is a semi-crystalline copolymer of vinylidene fluoride and hexafluoropropylene. This copolymer is a highly flexible material that can be melt processed using typical melt processing equipment or can be easily put in solution for solution coating process. It can be supplied in as pellets for melt processing or as crumb to facilitate dissolution.
This is the most flexible KYNAR FLEX® resin grade available.

Additional characteristics:
- High flexibility
- Toughness
- Weatherability
- Solution properties

TYPE

PVDF

MAIN APPLICATIONS

- cpi - others

DELIVERY FORM

- Pellets

RHEOLOGICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melt viscosity, 230°C (446°F) at 100 s-1	12 - 20	kPo	ASTM D3835

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Tensile modulus, 23°C (73°F)	80	MPa	ASTM D638
Yield stress, 23°C (73°F)	4.83 - 8.27	MPa	ASTM D638
Yield strain, 23°C (73°F)	20	%	ISO 527-1/-2
Stress at break, 23°C (73°F)	8.96 - 20.7	MPa	ASTM D638
Nominal strain at break, 23°C (73°F)	>50	%	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	68.9 - 138	MPa	ASTM D790
Charpy notched impact strength, 23°C (73°F)	No Break		ISO 179 1eA
Hardness, shore D	35 - 43		ASTM D2240

THERMAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Limiting oxygen index (LOI)	40	%	ASTM D2863
Heat deflection temperature, 1.8 MPa	46	°C	ISO 75-1/-2
Glass transition temperature	-40	°C	ASTM D7028
Melting temperature, 10°C/min	101	°C	ISO 11357-1/-3

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OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Density, 23°C (73°F)	1.8 - 1.83	g/cm³	ISO 1183-1
Water absorption, at equilibrium at 23°C (73°F) / Immersion	0.035	%	ISO 62

PACKAGING

Available packaging:
- 25 kg / 55 lb box
- 25 kg / 55 lb rigid container

SPECIAL CHARACTERISTICS

- Flame & smoke

Headquarters: Arkema France
51, Esplanade du Général de Gaulle
92800 Puteaux – France
T +33 (0)1 49 00 80 80

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