

## 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

#### DESIGNATION

PVDF

#### DELIVERY FORM

- Pellets

### RHEOLOGICAL PROPERTIES

속성	값	테스트 표준
Melt viscosity, 230°C (445°F) at 100 s-1	12 - 20 kPo	ASTM D3835

### MECHANICAL PROPERTIES

속성	값	테스트 표준
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), 50 mm/min	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 mm/min	>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
속성	값	테스트 표준
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

속성	값	테스트 표준
Specific gravity, 23°C (73°F)	1.8 - 1.83 g/cm <sup>3</sup>	
Water absorption, Saturated in water at 23°C (73°F)	0.035 %	ISO 62

## SPECIAL CHARACTERISTICS

- Flame & smoke

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