

TECHNICAL DATA SHEET
KYNAR® 720 RED

FLUORINATED HOMOPOLYMER PELLET

KYNAR® resins are fluorinated thermoplastic homopolymers.
Outstanding characteristics: chemical resistance, imperviousness to UV, high barrier properties, high purity, good mechanical and thermo-mechanical properties.
KYNAR® 720 resin is a standard grade of granules for injection molding. This product is NSF/ANSI/CAN 61 certified.

TYPE	交货形式
PVDF	• Pellets
MAIN APPLICATIONS	转化过程
• Molding	• Injection Molding

RHEOLOGICAL PROPERTIES

特性	价值	UNIT	测试标准
熔融粘度, 230°C (445°F) 在100 s-1	4 - 8	kPo	ASTM D3835
收缩, 正常 (t+24h)	2	%	ISO 294-4
收缩, 并行 (t+24h)	2	%	ISO 294-4
熔融流动指数 (MFR), 235°C / 5 公斤 (455°F / 11 磅)	19 - 35	g/10分钟	ASTM D1238
熔融体积流动速率 (MVR) , 230°C / 5 公斤 (446°F / 11 磅)	20	cm³/10分钟	ISO 1133

MECHANICAL PROPERTIES

特性	价值	UNIT	测试标准
Yield stress, 23°C (73°F)	44.8 - 55.2	MPa	ASTM D638
Stress at break, 23°C (73°F)	34.5 - 55.2	MPa	ASTM D638
Compression strength, 23°C (73°F)	68.9 - 103	MPa	ASTM D695
Izod impact unnotched strength, 23°C (73°F)	1070-4214	J/m	ASTM D256
Izod impact notched strength, 23°C (73°F)	80-214	J/m	ASTM D256
Charpy unnotched impact strength, 23°C (73°F)	192	kJ/m2	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	208	kJ/m2	ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	8	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	5	kJ/m2	ISO 179 1eA
Hardness, Shore D	76 - 80		ASTM D2240
Nominal strain at break, 23°C (73°F), 50 mm/min	>50	%	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	9	%	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	1380 - 2310	MPa	ASTM D790

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特性	价值	UNIT	测试标准
Tensile modulus, 23°C (73°F)	2300	MPa	ASTM D638
Coefficient of friction dynamic vs steel, 23°C (73°F)	0.14		ASTM D1895
Coefficient of friction static vs steel, 23°C (73°F)	0.2		ASTM D1894
Abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles	5 - 9	mg	ASTM G195-13A

THERMAL PROPERTIES

特性	价值	UNIT	测试标准
玻璃转变温度, 10°C/分钟	-40	°C	ISO 11357-1/-2
维卡软化温度, 50N在50°C/h	140	°C	ISO 306
限氧指数 (LOI)	44	%	ASTM D2863
黄牌可用	yes		
线性热膨胀系数, 23°C (73°F)	119 - 144	10E-6 / °K	ASTM D696
比热温度, 23°C (73°F)	665 - 958		ISO 11357-1/-2
热变形温度, 0.45 MPa	130	°C	ISO 75-1/-2
热变形温度, 1.8 MPa	110	°C	ISO 75-1/-2
热变形温度, 1.8 MPa , 138°C/h	105 - 115	°C	ASTM D648
热变形温度, 0.45 MPa , 138°C/h	125-140	°C	ASTM D648
导热系数	0.17 - 0.19	W/m-K	ASTM D433
熔点, 10°C/分钟	168	°C	ISO 11357-1/-3

ELECTRICAL PROPERTIES

特性	价值	UNIT	测试标准
介电常数, 1kHz	4.5 - 9.5		ASTM D150
介电强度, 23°C (73,4°F)	1.7	千伏/毫米	ASTM D149
相对介电常数, 100赫兹	9		IEC 62631-2-1
相对介电常数, 1MHz	6		IEC 62631-2-1
相对热指数	150		
耗散因子, 100赫兹	350	E-4	IEC 62631-2-1
耗散因子, 1MHz	2060	E-4	IEC 62631-2-1
耗散因子	0.01 - 0.21		ASTM D150

OTHER PROPERTIES

特性	价值	UNIT	测试标准
Specific gravity, 23°C (73°F)	1.77 - 1.79	g/cm³	
Water absorption, Saturated in water at 23°C (73°F)	0.03	%	ISO 62

KYNAR® 720 RED

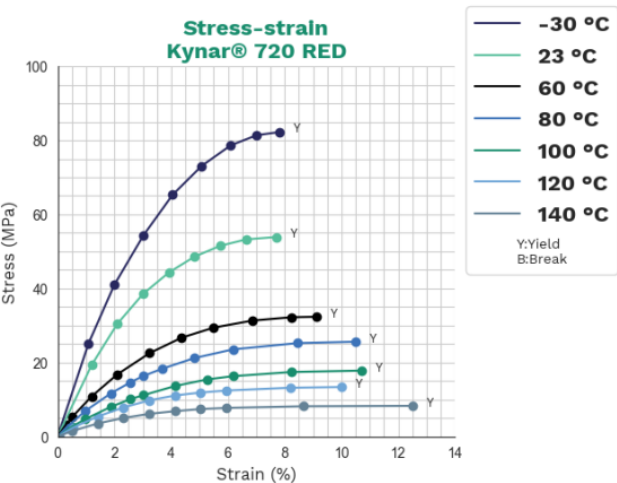
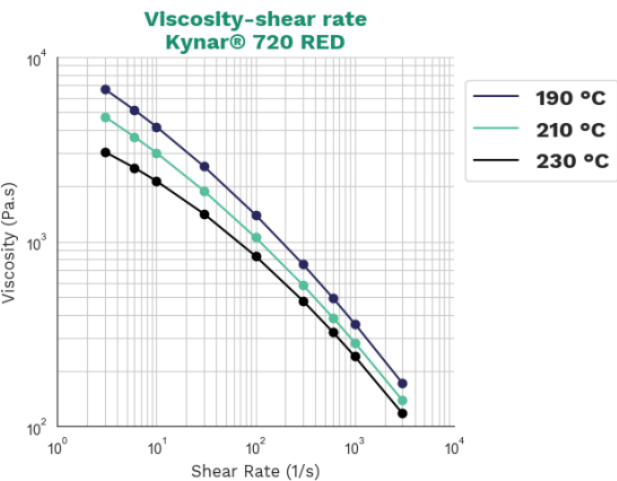
包装

- Available packaging:
- 25 kg / 55 lb rigid container
 - 680 kg /1500 lb rigid container

特殊特性

- Flame & smoke

DIAGRAMS



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