

KYNAR SUPERFLEX[®]

2500-20

Kynar Superflex[®] resin is a thermoplastic fluorinated polymer.

The properties are the same as standard grades: chemical resistance, resistance to UV, low permeation, high purity, excellent mechanical behavior.

More over, this grade is very flexible and is suitable in electrical isolation cable, tubing and co-extrusion.

This grade is available as pellet form for injection, extrusion, compression.

特性	値	単位	テスト基準
レオロジー特性			
メルトポリュームレイト	5.8	cm ³ /10min	ISO 1133
温度	232	°C	-
	450	°F	-
荷重	3.8	kg	-
	8.38	lb	-
メルトフローレイト	1 - 15	g/10min	ASTM D1238
温度	230	°C	-
荷重	3.8	kg	-
溶融粘度, 230°C, 100 s ⁻¹	9 - 16	kPoise	ASTM D3835
機械的特性			
引張弾性率	350	MPa	ISO 527-1/-2
	50800	psi	
引張弾性率, 73 °F	241 - 379	MPa	ASTM D638
	35000 - 55000	psi	
降伏応力	15	MPa	ISO 527-1/-2
	2180	psi	
降伏応力, 73 °F	11.7 - 19.3	MPa	ASTM D638
	1700 - 2800	psi	
降伏ひずみ	18	%	ISO 527-1/-2
降伏点伸び, 73 °F	17 - 25	%	ASTM D638
破壊呼びひずみ	>50	%	ISO 527-1/-2
破壊応力, 73 °F	13.8 - 31	MPa	ASTM D638
	2000 - 4500	psi	
破断伸び, 73 °F	300 - 400	%	ASTM D638
Taber 耐摩耗性, CS 17 1000g:pad	28 - 33	mg/100 cycles	ASTM-G195-13A

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シヨア硬さ, D, 73 °F	50 - 57	-	ASTM D2240
曲げ弾性率, 73 °F	193 - 276	MPa	ASTM D790
	28000 - 40000	psi	
5%伸び時の曲げ強度, 73 °F	10.3 - 17.2	MPa	ASTM D790
	1500 - 2500	psi	
圧縮強度, 73 °F	13.8 - 20.7	MPa	ASTM D695
	2000 - 3000	psi	
ノッチ付きシャルピー衝撃強さ, +23°C	未破壊	kJ/m ²	ISO 179/1eA
衝撃試験, 73 °F	未破壊	kJ/m	ASTM D256
ノッチ付き衝撃強さ, 73 °F	未破壊	kJ/m	ASTM D256
摩擦係数, 静力学対鋼, 73°F	0.49	-	ASTM D1894
摩擦係数, 動的対鋼, 73°F	0.54	-	ASTM D1894
熱的特性			
溶融温度, 10°C/min	122	°C	ISO 11357-1/-3
溶融温度	117 - 125	°C	ASTM D3418
ガラス転移点, 10°C/min	-40	°C	ISO 11357-1/-2
ガラス転移温度 (Tg)	-43.3 - -40	°C	ASTM D7028
	-46 - -40	°F	
荷重たわみ温度, 1.80 MPa	31	°C	ISO 75-1/-2
	88	°F	
荷重たわみ温度, 264 Psi, 248 °F/hr	26.7 - 37.8	°C	ASTM D648
	80 - 100	°F	
線膨張係数, 73 °F	15.3 - 19.4	10E-5/ °C	ASTM D696
	8.5 - 10.8	10E-5/ °F	
1.5mm厚さでの燃焼性	V-0	class	IEC 60695-11-10
試験片の厚さ	1.5	mm	-
	0.0591	in	
Yellow Card 可用	はい	-	-
厚さhでの燃焼性	V-0	class	IEC 60695-11-10
試験片の厚さ	1.0	mm	-
	0.0394	in	
酸素指数	44	%	ISO 4589-1/-2
酸素指数	42	%	ASTM D2863
熱伝導率	0.144 - 0.18	W/(m K)	ASTM D433
	1 - 1.25	BTU in /(hr ft ² F)	

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比熱	745 - 958	J/(kg K)	DSC
	0.28 - 0.36	BTU/(l	
空気中の熱分解	375	°C	1% wt. loss
	707	°F	
窒素中での熱分解	410	°C	1% wt. loss
	770	°F	
電気的特性.			
比誘電率, 1 kHz	4.5 - 13.5	-	ASTM D150
誘電正接, 100 kHz	0.05 - 0.29	-	ASTM D150
体積抵抗率, DC 68 °F, 65% R.H.	2E14	Ohm* cm	ASTM D257
表面抵抗率, 73 °F	8.5E11 - 9.2E11	Ohm per square	ASTM D257
耐電圧	12	kV/m	IEC 60243-1
	305	kV/in	
耐電圧, 73°F	0.8 - 1.1	kV/mil	ASTM D149
その他の特性.			
吸水率, 23°C, immersion, equilibrium	0.03	%	ISO 62
吸水率	≤ 0.07	%	ASTM D570
密度	1790	kg/m ³	ISO 1183
	1.79	g/cm ³	
比重, 73 °F	1.8 - 1.82	-	ASTM D792
光学特性			
Refractive Index @ sodium D line	1.4	-	ASTM D542

成形加工法	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
射出成形, シート押出成形, コーティング, トランスファー成形	
納入形状	
ペレット	
特殊な特性	
熱安定化, 光安定化	
領域別の利用可能性	
北アメリカ, ヨーロッパ, アジア/太平洋地域, 南・中央アメリカ, 近東/アフリカ	

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