

KYNAR FLEX®

2950-05

Kynar Flex® resins are fluorinated thermoplastic copolymers.

Kynar Flex® 2950-05 resin is a pelletized, semi-crystalline VF2 based copolymer. It has been designed for wire and cable applications requiring high flexibility and improved resistance to impact. The low molecular weight allows extrusion conditions that reduce jacket shrink back over fiber optic constructions.

Additional characteristics:

- Excellent thermal stability
- Excellent abrasion resistance
- Excellent chemical resistance
- Impervious to UV degradation
- High Limiting Oxygen Index
- Extremely low smoke emission characteristics

Meets UL910 requirements

特性	値	単位	テスト基準
レオロジー特性			
メルトボリュームレイト	11.5	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	8 - 25	g/10min	ASTM D1238
温度	230	°C	-
荷重	3.8	kg	-
溶融粘度, 230°C, 100 s ⁻¹	6 - 12	kPoise	ASTM D3835
機械的特性			
引張弾性率	387	MPa	ISO 527-1/-2
	56100	psi	
引張弾性率, 73 °F	276 - 448	MPa	ASTM D638
	40000 - 65000	psi	
降伏応力	17	MPa	ISO 527-1/-2
	2470	psi	
降伏応力, 73 °F	13.8 - 21.4	MPa	ASTM D638
	2000 - 3100	psi	
降伏ひずみ	18	%	ISO 527-1/-2
降伏点伸び, 73 °F	15 - 25	%	ASTM D638
破壊呼びひずみ	>50	%	ISO 527-1/-2

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破壊応力, 73 °F	20 - 27.6	MPa	ASTM D638
	2900 - 4000	psi	
破断伸び, 73 °F	200 - 400	%	ASTM D638
Taber 耐摩耗性, CS 17 1000g:pad	21 - 25	mg/1000 cycles	ASTM-G195-13A
ショア硬さ, D, 73 °F	57 - 62	-	ASTM D2240
曲げ弾性率, 73 °F	276 - 414	MPa	ASTM D790
	40000 - 60000	psi	
5%伸び時の曲げ強度, 73 °F	13.8 - 24.1	MPa	ASTM D790
	2000 - 3500	psi	
圧縮強度, 73 °F	24.1 - 31	MPa	ASTM D695
	3500 - 4500	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	0.55	-	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	134	°C	ISO 11357-1/-3
溶融温度	130 - 138	°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)	-42.2 - -40	°C	ASTM D7028
	-44 - -40	°F	
荷重たわみ温度, 1.80 MPa	43	°C	ISO 75-1/-2
	109	°F	
荷重たわみ温度, 264 Psi, 248 °F/hr	35 - 51.7	°C	ASTM D648
	95 - 125	°F	
荷重たわみ温度, 0.45 MPa	57	°C	ISO 75-1/-2
	135	°F	
荷重たわみ温度, 66 Psi, 248 °F/hr	48.9 - 65.6	°C	ASTM D648
	120 - 150	°F	
線膨張係数, 73 °F	16.2 - 21.6	10E-5/°C	ASTM D696
	9 - 12	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	

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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	0.8	mm	-
	0.0315	in	
酸素指数	95	%	ISO 4589-1/-2
酸素指数	95	%	ASTM D2863
熱伝導率	0.144 - 0.18	W/(m K)	ASTM D433
	1 - 1.25	BTU in	
比熱	745 - 958	(hr ft ² / (kg K))	DSC
	0.28 - 0.36	BTU/(l b °F)	
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, 100Hz	7.05	-	IEC 60250
比誘電率, 1 kHz	3.8 - 12.1	-	ASTM D150
誘電正接, 100Hz	0.12	E-4	IEC 60250
誘電正接, 100 kHz	0.02 - 0.24	-	ASTM D150
体積抵抗率	2E12	Ohm* m	IEC 62631-3-1
体積抵抗率, DC 68 °F, 65% R.H.	2E14	Ohm* cm	ASTM D257
耐電圧	1.4	kV/m	IEC 60243-1
	35.6	kV/in	
耐電圧, 73°F	1.1 - 1.3	kV/mil	ASTM D149
その他の特性.			
吸水率, 23°C, immersion, equilibrium	0.03	%	ISO 62
吸水率	0.03 - 0.05	%	ASTM D570
密度	1770	kg/m ³	ISO 1183
	1.77	g/cm ³	
比重, 73 °F	1.78 - 1.8	-	ASTM D792

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