

KYNAR® 761A

Kynar® resins are fluorinated thermoplastic homopolymers.

Outstanding characteristics: chemical resistance, imperviousness to UV, high barrier properties, high purity, good mechanical and thermo-mechanical properties.

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	0.9	cm³/10min	ISO 1133
温度	230	°C	-
	446	°F	
荷重	10	kg	-
	22	lb	
メルトフローレイト	0.5 - 3.5	g/10min	ASTM D1238
温度	230	°C	-
荷重	12.5	kg	-
成形収縮率, 平行	3.0	%	ISO 294-4, 2577
成形収縮率, 直角	3.0	%	ISO 294-4, 2577
溶融粘度, 230°C, 100 s ⁻¹	30.5 - 36.5	kPoise	ASTM D3835
機械的特性			
引張弾性率	2000	MPa	ISO 527-1/-2
	290000	psi	
引張弾性率, 73 °F	1380 - 2310	MPa	ASTM D638
	200000 - 335000	psi	
降伏応力	50	MPa	ISO 527-1/-2
	7250	psi	
降伏応力, 73 °F	44.8 - 55.2	MPa	ASTM D638
	6500 - 8000	psi	
降伏ひずみ	9	%	ISO 527-1/-2
降伏点伸び, 73 °F	5 - 10	%	ASTM D638
破壊呼びひずみ	>50	%	ISO 527-1/-2
破壊応力, 73 °F	34.5 - 55.2	MPa	ASTM D638
	5000 - 8000	psi	
破断伸び, 73 °F	20 - 100	%	ASTM D638
Taber 耐摩耗性, CS 17 1000g:pad	5 - 9	mg/100 cycles	ASTM-G195-13A

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Source: automatically generated TDS from Material Database on 20-02-2024

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シヨア硬さ, D, 73 °F	76 - 80	-	ASTM D2240
曲げ弾性率, 73 °F	1380 - 2310	MPa	ASTM D790
	200000 - 335000	psi	
5%伸び時の曲げ強度, 73 °F	58.6 - 75.8	MPa	ASTM D790
	8500 - 11000	psi	
圧縮強度, 73 °F	68.9 - 103	MPa	ASTM D695
	10000 - 15000	psi	
シャルピー衝撃強さ, +23°C	50	kJ/m ²	ISO 179/1eU
	23.8	ftlb/in ²	
衝撃試験, 73 °F	1.07 - 4.27	kJ/m	ASTM D256
	20 - 80	ftlb/in	
ノッチ付き衝撃強さ, 73 °F	0.0961 - 0.214	kJ/m	ASTM D256
	1.8 - 4	ftlb/in	
摩擦係数, 静力学対鋼, 73°F	0.2	-	ASTM D1894
摩擦係数, 動的対鋼, 73°F	0.14	-	ASTM D1894
熱的特性			
溶融温度, 10°C/min	170	°C	ISO 11357-1/-3
溶融温度	165 - 172	°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)	-40.6 - -38.3	°C	ASTM D7028
	-41 - -37	°F	
荷重たわみ温度, 1.80 MPa	104	°C	ISO 75-1/-2
	219	°F	
荷重たわみ温度, 264 Psi, 248 °F/hr	105 - 115	°C	ASTM D648
	221 - 239	°F	
荷重たわみ温度, 66 Psi, 248 °F/hr	125 - 140	°C	ASTM D648
	257 - 284	°F	
線膨張係数, 平行	150	E-6/K	ISO 11359-1/-2
線膨張係数, 73 °F	11.9 - 14.4	10E-5/°C	ASTM D696
	6.6 - 8	10E-5/°F	
1.5mm厚さでの燃焼性	V-0	class	IEC 60695-11-10
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	

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酸素指数	43	%	ISO 4589-1/-2
酸素指数	44	%	ASTM D2863
熱伝導率	0.17 - 0.19 1.18 - 1.32	W/(m K) BTU in	ASTM D433
比熱	745 - 958 0.28 - 0.36	/(hr ft ² F) (kg K) BTU/(l	DSC
空気中の熱分解	375 707	b °F) °F	1% wt. loss
窒素中での熱分解	410 770	°C °F	1% wt. loss
電気的特性.			
比誘電率, 1 kHz	4.5 - 9.5	-	ASTM D150
誘電正接, 100 kHz	0.01 - 0.21	-	ASTM D150
体積抵抗率, DC 68 °F, 65% R.H.	2E14	Ohm* cm	ASTM D257
その他の特性.			
吸水率	0.01 - 0.03	%	ASTM D570
比重, 73 °F	1.77 - 1.79	-	ASTM D792
溶融時の熱伝導率	0.19	W/(m K)	-
溶融時の密度	1780 111	kg/m ³ lb/ft ³	-
光学特性			
Refractive Index @ sodium D line	1.42	-	ASTM D542

Main applications:

- corrosion protection in the chemical industry
- wire and cable
- membrane
- coating (painting, co-extrusion)
- PPA
- off-shore
- battery

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納入形状 パウダー	

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