

KYNAR FLEX®

2850-07

Kynar Flex® resins are fluorinated thermoplastic copolymers.

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

Kynar Flex® 2850-07 resin is a moderate viscosity version of Kynar Flex® 2850-00 resin in for ease of extrusion and co-extrusion.

It has a UL RTI temperature rating of 140 degrees C.

[UL Yellow Card](#)

特性	値	単位	テスト基準
レオロジー特性			
メルトフローレイト	9 - 16	g/10m in	ASTM D1238
温度	230	°C	-
荷重	12.5	kg	-
溶融粘度, 230°C, 100 s ⁻¹	16 - 20	kPoise	ASTM D3835
機械的特性			
引張弾性率	1300	MPa	ISO 527-1/-2
	189000	psi	
引張弾性率, 73 °F	1030 - 1520	MPa	ASTM D638
	150000 - 220000	psi	
降伏応力	40	MPa	ISO 527-1/-2
	5800	psi	
降伏応力, 73 °F	31 - 41.4	MPa	ASTM D638
	4500 - 6000	psi	
降伏ひずみ	11	%	ISO 527-1/-2
降伏点伸び, 73 °F	5 - 15	%	ASTM D638
破壊呼びひずみ	>50	%	ISO 527-1/-2
破壊応力, 73 °F	27.6 - 48.3	MPa	ASTM D638
	4000 - 7000	psi	
破断伸び, 73 °F	30 - 200	%	ASTM D638
Taber 耐摩耗性, CS 17 1000g:pad	6 - 9	mg/10 00 cycles	ASTM-G195-13A
ショア硬さ, D, 73 °F	70 - 75	-	ASTM D2240
曲げ弾性率, 73 °F	1030 - 1240	MPa	ASTM D790
	150000 - 180000	psi	

Arkema France - A French "société anonyme", registered in the Nanterre (France)
Trade and Companies Register under the number 319 632 790 SDC/11-2018
Source: automatically generated TDS from Material Database on 20-02-2024

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5%伸び時の曲げ強度, 73 °F	20.7 - 34.5	MPa	ASTM D790
	3000 - 5000	psi	
圧縮強度, 73 °F	41.4 - 58.6	MPa	ASTM D695
	6000 - 8500	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	0.16 - 0.427	kJ/m	ASTM D256
	3 - 8	ftlb/in	
摩擦係数, 静力学対鋼, 73°F	0.26	-	ASTM D1894
摩擦係数, 動的対鋼, 73°F	0.19	-	ASTM D1894
熱的特性			
溶融温度, 10°C/min	157	°C	ISO 11357-1/-3
溶融温度	155 - 160	°C	ASTM D3418
ガラス転移温度 (Tg)	-40.6 - -38.3	°C	ASTM D7028
	-41 - -37	°F	
温度定格	140	°C	UL RTI
	284	°F	
荷重たわみ温度, 264 Psi, 248 °F/hr	37.8 - 55	°C	ASTM D648
	100 - 131	°F	
荷重たわみ温度, 66 Psi, 248 °F/hr	60 - 75	°C	ASTM D648
	140 - 167	°F	
線膨張係数, 73 °F	12.6 - 18.5	10E-5/°C	ASTM D696
	7 - 10.3	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	0.8	mm	-
	0.0315	in	
酸素指数	43	%	ASTM D2863
熱伝導率	0.144 - 0.18	W/(m K)	ASTM D433
	1 - 1.25	BTU in	
比熱	745 - 958	J/(kg K)	DSC
	0.28 - 0.36	BTU/(lb °F)	

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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	
相对熱指数, 機械的	140	°C	UL 746B
	284	°F	
相对熱指数, 電気	140	°C	UL 746B
	284	°F	
電気的特性.			
比誘電率, 100Hz	6.85	-	IEC 60250
比誘電率, 1 kHz	3.5 - 10.2	-	ASTM D150
誘電正接, 100Hz	0.12	E-4	IEC 60250
誘電正接, 100 kHz	0.01 - 0.22	-	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	1.3 - 1.6	kV/mil	ASTM D149
その他の特性.			
吸水率, 23°C, immersion, equilibrium	0.03	%	ISO 62
密度	1770	kg/m ³	ISO 1183
	1.77	g/cm ³	
比重, 73 °F	1.77 - 1.8	-	ASTM D792
光学特性			
Refractive Index @ sodium D line	1.42	-	ASTM D542

Main applications:

- injection molded applications requiring the high chemical and temperature resistance properties of Kynar 2850-00 resin

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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	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
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