KYNAR FLEX®
2821-00

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. This product is NSF/ANSI/CAN 61 certified.

Kynar Flex® 2821 resin is the powder form of the Kynar Flex® 2820-20 resin. To be used as an additive in polyethylene to improve the extrusion rate.

UL Yellow Card

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	3	cm³/10min	ISO 1133
温度	230	°C	-
	446	°F	
荷重	5	kg	-
	11	lb	
メルトフローレイト	1 - 8	g/10min	ASTM D1238
温度	230	°C	-
荷重	5	kg	-
溶融粘度, 230°C, 100 s^{-1}	12 - 20	kPoise	ASTM D3835
機械的特性			
引張弾性率	700	MPa	ISO 527-1/-2
	102000	psi	
引張弾性率, 73 °F	552 - 896	MPa	ASTM D638
	80000 - 130000	psi	
降伏応力	27	MPa	ISO 527-1/-2
	3920	psi	
降伏応力, 73 °F	20 - 34.5	MPa	ASTM D638
	2900 - 5000	psi	
降伏ひずみ	15	%	ISO 527-1/-2
破壊呼びひずみ	>50	%	ISO 527-1/-2
破壊応力, 73 °F	17.2 - 34.5	MPa	ASTM D638
	2500 - 5000	psi	
破断伸び, 73 °F	100 - 300	%	ASTM D638

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

KYNAR FLEX®
2821-00

Taber 耐摩耗性, CS 17 1000g:pad	16 - 9	mg/1000 cycles	ASTM-G195-13A
ショア硬さ, D, 73 °F	60 - 70	-	ASTM D2240
曲げ弾性率, 73 °F	483 - 758	MPa	ASTM D790
	70000 - 110000	psi	
圧縮強度, 73 °F	31 - 41.4	MPa	ASTM D695
	4500 - 6000	psi	
ノッチ付きシャルピー衝撃強さ, +23°C	未破壊	kJ/m²	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	0.534 - 1.07	kJ/m	ASTM D256
	10 - 20	ftlb/in	
摩擦係数, 静力学対鋼, 73°F	0.33	-	ASTM D1894
摩擦係数, 動的対鋼, 73°F	0.33	-	ASTM D1894
熱的特性			
溶融温度, 10°C/min	143	°C	ISO 11357-1/-3
溶融温度	140 - 145	°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)	-41.1 - -39.4	°C	ASTM D7028
	-42 - -39	°F	
温度定格	130	°C	UL RTI
	266	°F	
荷重たわみ温度, 1.80 MPa	48	°C	ISO 75-1/-2
	118	°F	
荷重たわみ温度, 264 Psi, 248 °F/hr	40 - 55	°C	ASTM D648
	104 - 131	°F	
荷重たわみ温度, 66 Psi, 248 °F/hr	60 - 75	°C	ASTM D648
	140 - 167	°F	
ビカット軟化温度, 50°C/h 50N	76	°C	ISO 306
	169	°F	
線膨張係数, 平行	160	E-6/K	ISO 11359-1/-2
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	

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

KYNAR FLEX®
2821-00

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	
Yellow Card 可用	はい	-	-
厚さhでの燃焼性 5V	5VB	class	IEC 60695-11-20
試験片の厚さ	1.5	mm	-
	0.0591	in	
酸素指数	42	%	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 ft2 F)	
比熱	745 - 958	J/(kg K)	DSC
	0.28 - 0.36	BTU/(lb·°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	
相対熱指数, 機械的	130	°C	UL 746B
	266	°F	
相対熱指数, 電気	130	°C	UL 746B
	266	°F	
電気的特性.			
比誘電率, 1MHz	6	-	IEC 60250
比誘電率, 1 kHz	3.5 - 10.6	-	ASTM D150
誘電正接, 100Hz	570	E-4	IEC 60250
誘電正接, 1MHz	2340	E-4	IEC 60250
誘電正接, 100 kHz	0.02 - 0.21	-	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, 73°F	1.3 - 1.5	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/m³	ISO 1183
	1.77	g/cm³	

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

KYNAR FLEX®
2821-00

比重, 73 °F	1.77 - 1.8	-	ASTM D792
光学特性			
Refractive Index @ sodium D line	1.41	-	ASTM D542

Main applications:

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

納入形状

パウダー

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

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

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

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.