

KYNAR® 705

Kynar® resins are fluorinated thermoplastic homopolymers.

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

Kynar® 705 resin is a grade of granules for injection molding, rotomolding applications and multifilament extrusion.

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	40	cm ³ /10min	ISO 1133
温度	230	°C	-
	446	°F	-
荷重	5	kg	-
	11	lb	-
メルトフローレイト	25 - 40	g/10min	ASTM D1238
温度	230	°C	-
荷重	2.16	kg	-
成形収縮率, 平行	2.0	%	ISO 294-4, 2577
成形収縮率, 直角	2.0	%	ISO 294-4, 2577
熔融粘度, 230°C, 100 s ⁻¹	2 - 5	kPoise	ASTM D3835
機械的特性			
引張弾性率	2400	MPa	ISO 527-1/-2
	348000	psi	
引張弾性率, 73 °F	1380 - 2310	MPa	ASTM D638
	200000 - 335000	psi	
降伏応力	54	MPa	ISO 527-1/-2
	7830	psi	
降伏応力, 73 °F	44.8 - 55.2	MPa	ASTM D638
	6500 - 8000	psi	
降伏ひずみ	8	%	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	10 - 50	%	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® 705

Taber 耐摩耗性, CS 17 1000g:pad	5 - 9	mg/100 cycles	ASTM-G195-13A
ショア硬さ, D, 73 °F	76 - 80	-	ASTM D2240
曲げ弾性率, 73 °F	1380 - 2310 200000 - 335000	MPa psi	ASTM D790
5%伸び時の曲げ強度, 73 °F	58.6 - 75.8 8500 - 11000	MPa psi	ASTM D790
圧縮強度, 73 °F	68.9 - 103 10000 - 15000	MPa psi	ASTM D695
シャルピー衝撃強さ, +23°C	200 95.1	kJ/m ² ftlb/in ²	ISO 179/1eU
ノッチ付きシャルピー衝撃強さ, +23°C	6 2.85	kJ/m ² ftlb/in ²	ISO 179/1eA
ノッチ付き衝撃強さ, 73 °F	0.0534 - 0.107 1 - 2	kJ/m ftlb/in	ASTM D256
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 -41 - -37	°C °F	ASTM D7028
荷重たわみ温度, 1.80 MPa	112 234	°C °F	ISO 75-1/-2
荷重たわみ温度, 264 Psi, 248 °F/hr	105 - 115 221 - 239	°C °F	ASTM D648
荷重たわみ温度, 66 Psi, 248 °F/hr	125 - 140 257 - 284	°C °F	ASTM D648
線膨張係数-40°C to +100°C, 平行	150	E-6/K	ISO 11359-1/-2
線膨張係数-40°C to +100°C, 直角	150	E-6/K	ISO 11359-1/-2
線膨張係数, 73 °F	11.9 - 14.4 6.6 - 8	10E-5/ °C 10E-5/ °F	ASTM D696
1.5mm厚さでの燃焼性	V-0	class	IEC 60695-11-10
厚さhでの燃焼性	V-0	class	IEC 60695-11-10

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® 705

試験片の厚さ	0.8	mm	-
	0.0315	in	
酸素指数	43	%	ISO 4589-1/-2
酸素指数	42	%	ASTM D2863
熱伝導率	0.17 - 0.19	W/(m K)	ASTM D433
	1.18 - 1.32	BTU in	
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	
相対熱指数, 機械的	150	°C	UL 746B
	302	°F	
相対熱指数, 電気	150	°C	UL 746B
	302	°F	
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
耐電圧, 73°F	1.6	kV/mil	ASTM D149
その他の特性.			
吸水率, 23°C, immersion, equilibrium	0.02	%	ISO 62
吸水率	≤ 0.05	%	ASTM D570
密度	1780	kg/m³	ISO 1183
	1.78	g/cm³	
比重, 73 °F	1.77 - 1.79	-	ASTM D792
溶融時の熱伝導率	0.19	W/(m K)	-
光学特性			
Refractive Index @ sodium D line	1.42	-	ASTM D542

Main applications:

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

成形加工法 射出成形	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
納入形状 ペレット	
	Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com

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.