

KYNAR® 9000 HD

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® 9000 HD resin is a standard grade of granules for injection molding of thin walled parts 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	10	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	16 - 30	g/10min	ASTM D1238
温度	230	°C	-
荷重	5	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	5 - 8	kPoise	ASTM D3835
機械的特性			
引張弾性率	2500	MPa	ISO 527-1/-2
	363000	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	40	%	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

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

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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	232 110	kJ/m² ftlb/in²	ISO 179/1eU
シャルピー衝撃強さ, -30°C	218 104	kJ/m² ftlb/in²	ISO 179/1eU
ノッチ付きシャルピー衝撃強さ, +23°C	11 5.23	kJ/m² ftlb/in²	ISO 179/1eA
ノッチ付きシャルピー衝撃強さ, -30°C	5 2.38	kJ/m² ftlb/in²	ISO 179/1eA
衝撃試験, 73 °F	1.07 - 4.27 20 - 80	kJ/m ftlb/in	ASTM D256
ノッチ付き衝撃強さ, 73 °F	0.0961 - 0.214 1.8 - 4	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	171	°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	110 230	°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

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ピカット軟化温度, 50°C/h 50N	141	°C	ISO 306
	286	°F	
線膨張係数, 平行	136	E-6/K	ISO 11359-1/-2
線膨張係数, 73 °F	11.9 - 14.4	10E-5/	ASTM D696
	6.6 - 8	°C 10E-5/	
1.5mm厚さでの燃焼性	V-0	°F class	IEC 60695-11-10
試験片の厚さ	1.6	mm	-
	0.0630	in	
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	67	%	ISO 4589-1/-2
酸素指数	60	%	ASTM D2863
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	10	-	IEC 60250
比誘電率, 1MHz	7.5	-	IEC 60250
比誘電率, 1 kHz	4.5 - 0.5	-	ASTM D150
誘電正接, 100Hz	310	E-4	IEC 60250
誘電正接, 1MHz	2160	E-4	IEC 60250
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
体積抵抗率, 23°C	2E14	Ohm* cm	ASTM D257
耐電圧	27	kV/m	IEC 60243-1
	686	kV/in	
その他の特性.			
吸水率, 23°C, immersion, equilibrium	0.03	%	ISO 62
吸水率	0.01 - 0.03	%	ASTM D570
吸湿率	0.015	%	ISO 62
密度	1780	kg/m³	ISO 1183
	1.78	g/cm³	

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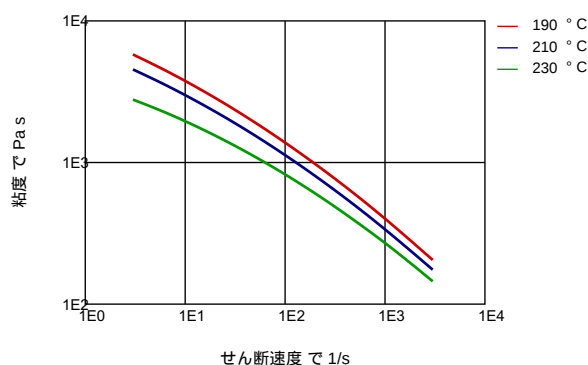
比重, 73 °F	1.76 - 1.78	-	ASTM D792
光学特性			
Refractive Index @ sodium D line	1.42	-	ASTM D542

Main applications:

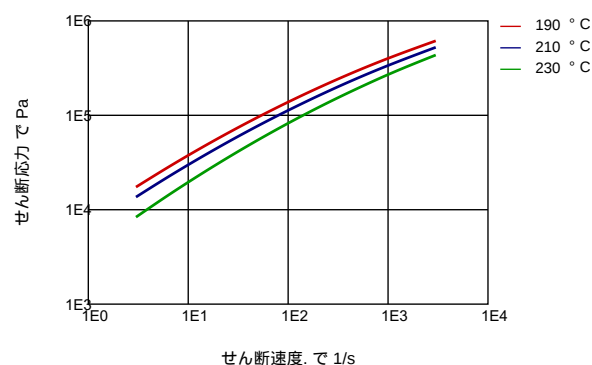
- corrosion protection in the chemical industry
- wire and cable
- coating (painting, co-extrusion)
- off-shore

機能

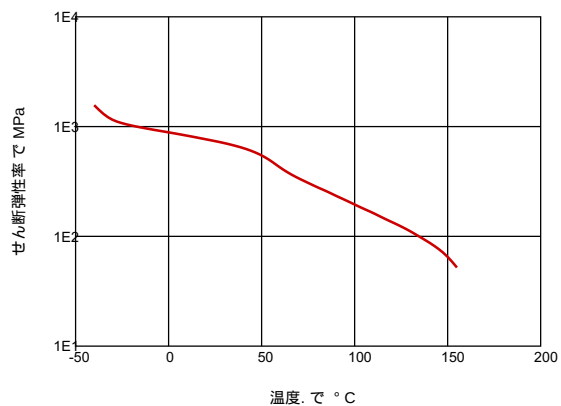
粘度せん断速度.



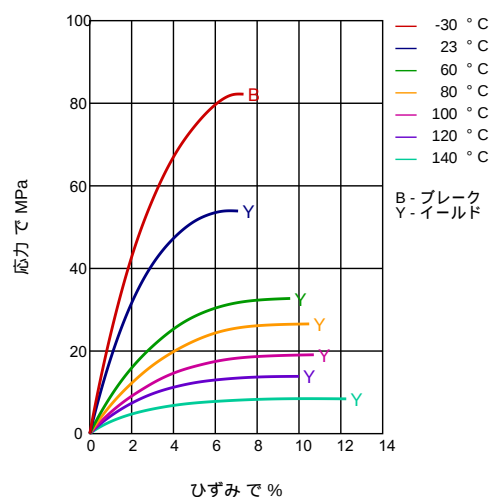
せん断応力-せん断速度.



せん断弾性率-温度.

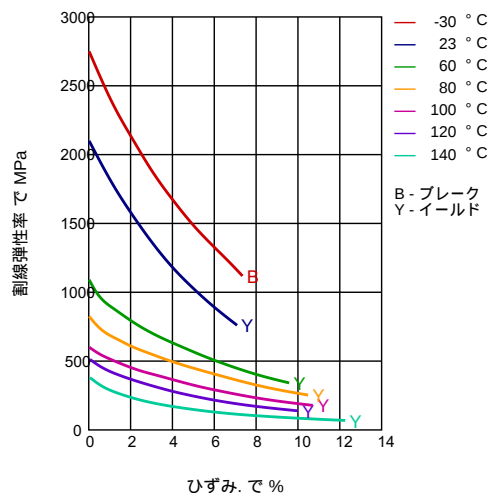


応力-ひずみ.

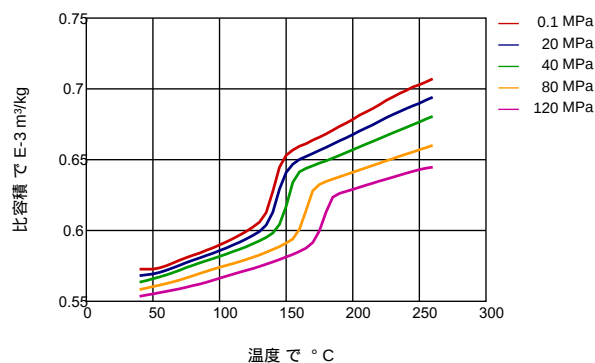


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割線弾性率—ひずみ.



PVT



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

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