

KYNAR SUPERFLEX[®]

2500-20

Kynar Superflex®树脂 是一种热塑性塑料氟化聚合物。
其特性与标准牌号相同：耐化学腐蚀性、耐紫外线性、低渗透性、高纯度、优异的机械特性。
此外，该柔韧性非常好，适用于电气隔离线缆、管路和共挤。
该牌号的供应形态为球状颗粒，适用于注塑、挤出、模压成型工艺。

性能	价值	单位	测试标准
流变性能			
熔体体积流动速度	5.8	cm ³ /10min	ISO 1133
温度	232	°C	-
	450	°F	-
载荷	3.8	kg	-
	8.38	lb	-
熔融指数	1 - 15	g/10min	ASTM D1238
温度	230	°C	-
负载	3.8	kg	-
熔体粘度, 230°C, 100 s ⁻¹	9 - 16	kPoise	ASTM D3835
机械性能			
拉伸模量	350	MPa	ISO 527-1/-2
	50800	psi	
拉伸模量, 73 °F	241 - 379	MPa	ASTM D638
	35000 - 55000	psi	
屈服应力	15	MPa	ISO 527-1/-2
	2180	psi	
屈服应力, 73 °F	11.7 - 19.3	MPa	ASTM D638
	1700 - 2800	psi	
屈服伸长率	18	%	ISO 527-1/-2
屈服伸长率, 73 °F	17 - 25	%	ASTM D638
名义断裂伸长率	>50	%	ISO 527-1/-2
断裂拉伸强度, 73 °F	13.8 - 31	MPa	ASTM D638
	2000 - 4500	psi	
断裂伸长率, 73 °F	300 - 400	%	ASTM D638
TABER耐磨耗性, CS 17 1000g:pad	28 - 33	mg/100 cycles	ASTM-G195-13A
肖氏硬度, D, 73 °F	50 - 57	-	ASTM D2240
弯曲模量, 73 °F	193 - 276	MPa	ASTM D790
	28000 - 40000	psi	

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5%伸长率时弯曲强度, 73 °F	10.3 - 17.2	MPa	ASTM D790
	1500 - 2500	psi	
压缩强度, 73 °F	13.8 - 20.7	MPa	ASTM D695
	2000 - 3000	psi	
简支梁缺口冲击强度, +23°C	无断裂	kJ/m ²	ISO 179/1eA
冲击强度, 73 °F	无断裂	kJ/m	ASTM D256
梁缺口冲击强度, 73 °F	无断裂	kJ/m	ASTM D256
摩擦系数, 静态vs.钢, 73°F	0.49	-	ASTM D1894
摩擦系数, 动态vs.钢, 73°F	0.54	-	ASTM D1894
热性能			
熔融温度, 10°C/min	122	°C	ISO 11357-1/-3
熔点	117 - 125	°C	ASTM D3418
玻璃化转变温度, 10°C/min	-40	°C	ISO 11357-1/-2
玻璃化转变温度 (Tg)	-43.3 - -40	°C	ASTM D7028
	-46 - -40	°F	
热变形温度, 1.80 MPa	31	°C	ISO 75-1/-2
	88	°F	
热变形温度, 264 Psi, 248 °F/hr	26.7 - 37.8	°C	ASTM D648
	80 - 100	°F	
热释放速率, 73 °F	15.3 - 19.4	10E-5/ °C	ASTM D696
	8.5 - 10.8	10E-5/ °F	
阻燃等级, 1.5mm厚	V-0	class	IEC 60695-11-10
测试用试样的厚度	1.5	mm	-
	0.0591	in	
Yellow Card 现存	是的	-	-
阻燃等级, 厚度h	V-0	class	IEC 60695-11-10
测试用试样的厚度	1.0	mm	-
	0.0394	in	
氧指数	44	%	ISO 4589-1/-2
氧指数	42	%	ASTM D2863
热导率	0.144 - 0.18	W/(m K)	ASTM D433
	1 - 1.25	BTU in (hr ft ² °F)	
比热	745 - 958	J/(kg K)	DSC
	0.28 - 0.36	BTU/(l b °F)	
在空气中热分解	375	°C	1% wt. loss
	707	°F	

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在氮气中热分解	410 770	°C °F	1% wt. loss
电性能			
电介质常数, 1 kHz	4.5 - 13.5	-	ASTM D150
耗散因素, 100 kHz	0.05 - 0.29	-	ASTM D150
体积电阻率, DC 68 °F, 65% R.H.	2E14	Ohm* cm	ASTM D257
表面电阻率, 73 °F	8.5E11 - 9.2E11	Ohm per square	ASTM D257
介电强度	12 305	kV/m kV/in	IEC 60243-1
电介质强度, 73°F	0.8 - 1.1	kV/mil	ASTM D149
其它性能			
吸水性, 23°C, immersion, equilibrium	0.03	%	ISO 62
吸水性	≤ 0.07	%	ASTM D570
密度	1790 1.79	kg/m ³ g/cm ³	ISO 1183
比重, 73 °F	1.8 - 1.82	-	ASTM D792
光学特性			
Refractive Index @ sodium D line	1.4	-	ASTM D542

加工方法	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
注塑, 片材挤出成型, 涂覆, 传递模塑成型	
供货形式	
粒料	
特殊性能	Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
热稳定, 光稳定	
地区供应	
北美, 欧洲, 亚太, 中南美洲, 中东/非洲	

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