

KYNAR®

460

Kynar® 树脂 是氟化热塑性塑料均聚物。

特性出色：耐化学腐蚀性、耐紫外线性、高阻隔特性、高纯度，良好的机械特性和热力学特性。

Kynar® 460 树脂 是一种标准的粒状颗粒，适用于管材、线缆和板材的挤出，以及模压成型和传递成型。

性能	价值	单位	测试标准
流变性能			
熔体体积流动速度	5.6	cm ³ /10min	ISO 1133
温度	230	°C	-
	446	°F	-
载荷	21.6	kg	-
	47.6	lb	-
熔融指数	6 - 14	g/10min	ASTM D1238
温度	230	°C	-
负载	21.6	kg	-
模塑收缩率, 平行	2.0	%	ISO 294-4, 2577
模塑收缩率, 垂直	2.0	%	ISO 294-4, 2577
熔体粘度, 230°C, 100 s ⁻¹	23.5 - 29.5	kPoise	ASTM D3835
机械性能			
拉伸模量	1400	MPa	ISO 527-1/-2
	203000	psi	
拉伸模量, 73 °F	1030 - 1380	MPa	ASTM D638
	150000 - 200000	psi	
屈服应力	42	MPa	ISO 527-1/-2
	6090	psi	
屈服应力, 73 °F	34.5 - 51.7	MPa	ASTM D638
	5000 - 7500	psi	
屈服伸长率	13	%	ISO 527-1/-2
屈服伸长率, 73 °F	10 - 15	%	ASTM D638
名义断裂伸长率	>50	%	ISO 527-1/-2
断裂拉伸强度, 73 °F	31 - 48.3	MPa	ASTM D638
	4500 - 7000	psi	
断裂伸长率, 73 °F	50 - 250	%	ASTM D638
TABER耐磨耗性, CS 17 1000g:pad	7 - 9	mg/100 cycles	ASTM-G195-13A

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

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肖氏硬度, D, 73 °F	75 - 80	-	ASTM D2240
弯曲模量, 73 °F	1380 - 1790	MPa	ASTM D790
	200000 - 260000	psi	
5%伸长率时弯曲强度, 73 °F	48.3 - 62.1	MPa	ASTM D790
	7000 - 9000	psi	
压缩强度, 73 °F	55.2 - 68.9	MPa	ASTM D695
	8000 - 10000	psi	
冲击强度, 73 °F	0.801 - 2.14	kJ/m	ASTM D256
	15 - 40	ftlb/in	
梁缺口冲击强度, 73 °F	0.0961 - 0.214	kJ/m	ASTM D256
	1.8 - 4	ftlb/in	
摩擦系数, 静态vs.钢, 73°F	0.23	-	ASTM D1894
摩擦系数, 动态vs.钢, 73°F	0.17	-	ASTM D1894
热性能			
熔融温度, 10°C/min	161	°C	ISO 11357-1/-3
熔点	155 - 172	°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)	-40.6 - -38.3	°C	ASTM D7028
	-41 - -37	°F	
热变形温度, 1.80 MPa	85	°C	ISO 75-1/-2
	185	°F	
热变形温度, 264 Psi, 248 °F/hr	80 - 90	°C	ASTM D648
	176 - 194	°F	
热变形温度, 66 Psi, 248 °F/hr	112 - 140	°C	ASTM D648
	234 - 284	°F	
线性热膨胀系数-40 °C至+100 °C, 平行	114	E-6/K	ISO 11359-1/-2
热释放速率, 73 °F	9 - 12.6	10E-5/°C	ASTM D696
	5 - 7	10E-5/°F	
阻燃等级, 1.5mm厚	V-0	class	IEC 60695-11-10
阻燃等级, 厚度h	V-0	class	IEC 60695-11-10
测试用试样的厚度	0.8	mm	-
	0.0315	in	
氧指数	43	%	ISO 4589-1/-2
氧指数	44	%	ASTM D2863
热导率	0.17 - 0.19	W/(m K)	ASTM D433
	1.18 - 1.32	BTU in/(hr ft² F)	

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比热	745 - 958 0.28 - 0.36	J/(kg K) BTU/(l b [°] F)	DSC
在空气中热分解	375 707	°C °F	1% wt. loss
在氮气中热分解	410 770	°C °F	1% wt. loss
电性能			
相对介电常数, 100Hz	9	-	IEC 60250
相对介电常数, 1MHz	6.7	-	IEC 60250
电介质常数, 1 kHz	4.5 - 9.5	-	ASTM D150
介质损耗因子, 100Hz	1300	E-4	IEC 60250
介质损耗因子, 1MHz	700	E-4	IEC 60250
耗散因素, 100 kHz	0.01 - 0.21	-	ASTM D150
体积电阻率	2E12	Ohm* m	IEC 62631-3-1
体积电阻率, DC 68 °F, 65% R.H.	2E14	Ohm* cm	ASTM D257
表面电阻率, 73 °F	5.1E11 - 5.3E11	Ohm per square	ASTM D257
介电强度	63 1600	kV/m kV/in	IEC 60243-1
电介质强度, 73°F	1.6	kV/mil	ASTM D149
其它性能			
吸水性, 23°C, immersion, equilibrium	0.04	%	ISO 62
吸水性	≤ 0.04	%	ASTM D570
密度	1760 1.76	kg/m ³ g/cm ³	ISO 1183
比重, 73 °F	1.75 - 1.77	-	ASTM D792
熔体	0.19	W/(m K)	-
光学特性			
Refractive Index @ sodium D line	1.42	-	ASTM D542

主要应用

- 化工行业中的防腐蚀应用
- 涂料（涂装，共挤）
- 海上
- 电线电缆

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加工方法 异型材挤出成型, 其它挤出成型	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
供货形式 粒料	
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