

KYNAR SUPERFLEX[®]

2500-25

Kynar Superflex[®] 2500-25 is a pelletized, semi-crystalline VF2 based copolymer with a high Limiting Oxygen Index (LOI). **Kynar Superflex[®] 2500-25** is used for extrusion and injection molding applications where high flexibility and/or ductility is required along with extra flame and smoke resistance.

PROPERTIES	VALUE	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Flow Rate	1 - 15	g/10min	ASTM D1238
Temperature	230	°C	-
Load	3.8	kg	-
Melt Viscosity, 230°C, 100 s-1	9 - 16	kPoise	ASTM D3835
MECHANICAL PROPERTIES			
Tensile Modulus, 73 °F	241 - 379	MPa	ASTM D638
	35000 - 55000	psi	
Tensile Strength at Yield, 73 °F	11.7 - 19.3	MPa	ASTM D638
	1700 - 2800	psi	
Elongation at Yield, 73 °F	17 - 25	%	ASTM D638
Tensile Strength at Break, 73 °F	13.8 - 31	MPa	ASTM D638
	2000 - 4500	psi	
Elongation at Break, 73 °F	500 - 800	%	ASTM D638
Taber Abrasion, CS 17 1000g:pad	28 - 33	mg/1000 cycles	ASTM-G195-13A
Hardness, Shore D, 73 °F	50 - 57	-	ASTM D2240
Flexural Modulus, 73 °F	193 - 276	MPa	ASTM D790
	28000 - 40000	psi	
Flexural Stength @ 5% Strain, 73 °F	10.3 - 17.2	MPa	ASTM D790
	1500 - 2500	psi	
Compressive Strength, 73 °F	13.8 - 20.7	MPa	ASTM D695
	2000 - 3000	psi	
Unnotched Impact Strength, 73 °F	≥No Break	kJ/m	ASTM D256
Notched Impact Strength, 73 °F	≥No Break	kJ/m	ASTM D256
Coefficient of Friction, Static vs. Steel, 73 °F	0.49	-	ASTM D1894
Coefficient of Friction, Dynamic vs. Steel, 73 °F	0.54	-	ASTM D1894
THERMAL PROPERTIES			
Melting Point, 73 °F	117 - 125	°C	ASTM D3418
Glass Transition Temperature (Tg)	-41.7 - -40	°C	ASTM D7028
	-43 - -40	°F	

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Coefficient of Thermal Expansion, 73 °F	15.3 - 19.4	10E-5/°C	ASTM D696
	8.5 - 10.8	10E-5/°F	
Limiting Oxygen Index, 73 °F	≥75	%	ASTM D2863
Thermal Conductivity	0.144 - 0.18	W/(m K)	ASTM D433
	1 - 1.25	BTU in /(hr ft2 F)	
Specific Heat	745 - 958	J/(kg K)	DSC
	0.28 - 0.36	BTU/(lb·°F)	
ELECTRICAL PROPERTIES			
Dielectric Constant, 1 kHz	4.5 - 13.5	-	ASTM D150
Volume Resistivity, DC 68 °F, 65% R.H.	2E14	Ohm*cm	ASTM D257
Surface Resistivity, 73 °F	8.5E11 - 9.2E11	Ohm per square	ASTM D257
Dielectric (Electric) Strength, 73°F	0.8 - 1.1	kV/mil	ASTM D149
OTHER PROPERTIES			
Water Absorption	≤0.07	%	ASTM D570
Specific Gravity, 73 °F	1.8 - 1.82	-	ASTM D792

PROCESSING	
Profile Extrusion, Other Extrusion	
DELIVERY FORM	
Pellets	
REGIONAL AVAILABILITY	
North America, Europe, Asia Pacific, South and Central America, Near East/Africa	