

KYNAR® ADX 111

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

Kynar® ADX 111 resin allows primer less powder coating (direct adhesion to metals after standard surface preparation).

Can be used easily in standard application processes:

- Dip coating in fluidized bed
- Electrostatic spraying
- Hot flocking

PROPERTIES	VALUE	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	27	cm³/10min	ISO 1133
Temperature	230	°C	-
	446	°F	
Load	3.8	kg	-
	8.38	lb	
MECHANICAL PROPERTIES			
Tensile Modulus	2200	MPa	ISO 527-1/-2
	319000	psi	
Yield stress	54	MPa	ISO 527-1/-2
	7830	psi	
Yield strain	8	%	ISO 527-1/-2
Nominal Strain at Break	>50	%	ISO 527-1/-2
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	169	°C	ISO 11357-1/-3
Glass Transition Temperature, 10°C/min	-40	°C	ISO 11357-1/-2
Temp. of Deflection Under Load, 1.80 MPa	110	°C	ISO 75-1/-2
	230	°F	
Temp. of Deflection Under Load, 0.45 MPa	132	°C	ISO 75-1/-2
	270	°F	
Vicat Softening Temperature, 50°C/h 50N	139	°C	ISO 306
	282	°F	
Coeff. of Linear Thermal Expansion, parallel	150	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nominal Thickness	V-0	class	IEC 60695-11-10
Thickness Tested	1.5	mm	-
	0.0591	in	
Burning Behav. at Thickness h	V-0	class	IEC 60695-11-10

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Thickness Tested	0.8	mm	-
	0.0315	in	
Oxygen Index	44	%	ISO 4589-1/-2
ELECTRICAL PROPERTIES			
Relative Permittivity, 100Hz	9	-	IEC 60250
Relative Permittivity, 1MHz	7	-	IEC 60250
Dissipation Factor, 100Hz	320	E-4	IEC 60250
Dissipation Factor, 1MHz	2140	E-4	IEC 60250
Volume Resistivity	2E12	Ohm*m	IEC 60093
Surface Resistivity	>1E15	Ohm	IEC 60093
Dielectric (Electric) Strength	21	kV/mm	IEC 60243-1
	533	kV/in	
Comparative Tracking Index	600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	0.1	%	Sim. to ISO 62
Humidity Absorption	0.07	%	Sim. to ISO 62
Density	1780	kg/m³	ISO 1183
	1.78	g/cm³	

MAIN APPLICATIONS:

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

PROCESSING	
Coating	
DELIVERY FORM	
Powder	
SPECIAL CHARACTERISTICS	
Heat Stabilized	
REGIONAL AVAILABILITY	
North America, Europe, Asia Pacific, South and Central America, Near East/Africa	