

U-polymer AX-1500W

Polyarylate

UNITIKA Plastics Division

Message:

AX Series Resins Composite Grade

A resin succeeding the advantages of AX-1500 resin and containing titanium oxide at high concentration.

Improved drastically in light reflection and blocking properties, aimed at display devices.

General Information				
UL YellowCard		E47924-239898		
Features		Good Chemical Resistance		
Uses		Decorative Displays		
		Electronic Displays		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.37	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.00 mm)	0.90	--	%	ASTM D955
Water Absorption (24 hr, 3.18 mm)	0.72	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	79.0	--	MPa	ASTM D638
Tensile Elongation (Break)	47	--	%	ASTM D638
Flexural Modulus	3500	--	MPa	ASTM D790
Flexural Strength	125	--	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (3.18 mm)	43	--	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	150	--	°C	ASTM D648
CLTE - Flow	7.3E-5	--	cm/cm/°C	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	--	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength	--	25	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	--	3.40		ASTM D150
Dissipation Factor (1 MHz)	--	0.040		ASTM D150
Arc Resistance	--	80.0	sec	ASTM D495

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