

U-polymer AXG-1500-30

Polyarylate

UNITIKA Plastics Division

Message:

AX Series Resin Composite Grade

General Information				
UL YellowCard		E47924-239902		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Good Chemical Resistance		
		Good Dimensional Stability		
		High Heat Resistance		
		High Rigidity		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.41	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow : 3.00 mm	0.35	--	%	
Across Flow : 3.00 mm	0.70	--	%	
Water Absorption (24 hr, 3.18 mm)	0.26	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	121	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	143	112	MPa	ASTM D638
Tensile Elongation (Break)	4.0	6.0	%	ASTM D638
Flexural Modulus	8200	6300	MPa	ASTM D790
Flexural Strength	211	181	MPa	ASTM D790
Compressive Strength	147	--	MPa	ASTM D695
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (3.18 mm)	76	100	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	179	--	°C	ASTM D648
CLTE - Flow	4.6E-5	--	cm/cm/°C	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	--	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength	--	30	kV/mm	ASTM D149

Dielectric Constant (1 MHz)	--	3.60		ASTM D150
Dissipation Factor (1 MHz)	--	0.040		ASTM D150
Arc Resistance	--	60.0	sec	ASTM D495

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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