

U-polymer UG-100-30

Polyarylate

UNITIKA Plastics Division

Message:

U-100 Composite Grade

General Information			
Features	Good Creep Resistance		
	Good Dimensional Stability		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 3.00 mm	0.10 to 0.20	%	
Across Flow : 3.00 mm	0.30 to 0.50	%	
Water Absorption (24 hr, 3.18 mm)	0.24	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	132	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	5700	MPa	ASTM D790
Flexural Strength	133	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	180	°C	ASTM D648
CLTE - Flow	3.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.6E+16	ohms · cm	ASTM D257
Dielectric Strength	35	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.00		ASTM D150
Dissipation Factor (1 MHz)	0.015		ASTM D150
Arc Resistance	120	sec	ASTM D495

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