

U-polymer UG-100-20

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	1.36	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 3.00 mm	0.20	%	
Across Flow : 3.00 mm	0.55	%	
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	99.0	MPa	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	5200	MPa	ASTM D790
Flexural Strength	157	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C	ASTM D648
CLTE - Flow	2.1E-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)	26.0		ASTM D150
Dissipation Factor (1 MHz)	0.015		ASTM D150
Arc Resistance	120	sec	ASTM D495

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