

U-polymer U-100

Polyarylate
UNITIKA Plastics Division

Message:

U series resins are polymer alloys that are improved in resistance to oils and chemicals, the shortcoming of amorphous resins. They are transparent and have a greater moisture-blocking property than other resins having similar structures. They are also suitable for blow molding.

General Information			
Features	Amorphous		
	Excellent Elastic Recovery		
	Good Dimensional Stability		
	Good Weather Resistance		
	High Hardness		
	High Heat Resistance		
Uses	Automotive Applications		
	Connectors		
	Electrical Parts		
	Protective Coverings		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.00 mm)	0.80	%	ASTM D955
Water Absorption (24 hr, 3.18 mm)	0.26	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	69.0	MPa	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	2100	MPa	ASTM D790
Flexural Strength	84.0	MPa	ASTM D790
Compressive Strength	84.0	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C, 3.18 mm)	230	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	175	°C	ASTM D648
CLTE - Flow	6.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+16	ohms·cm	ASTM D257
Dielectric Strength	39	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.00		ASTM D150
Arc Resistance	130	sec	ASTM D495
Comparative Tracking Index	220	V	IEC 60112
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	87.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	120 to 140	°C	
Drying Time	6.0 to 8.0	hr	
Rear Temperature	320	°C	
Middle Temperature	350	°C	
Front Temperature	360	°C	
Nozzle Temperature	360	°C	
Mold Temperature	130 to 140	°C	
Injection Pressure	137	MPa	
Back Pressure	0.981	MPa	
Screw Speed	100 to 250	rpm	

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