

# U-polymer U-8000

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			
UL YellowCard	E47924-239933		
Features	Alcohol Resistant		
	Amorphous		
	Good Chemical Resistance		
	Good Weather Resistance		
	Moisture Resistant		
	Oil Resistant		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.00 mm)	0.80	%	ASTM D955
Water Absorption (24 hr, 3.18 mm)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	71.0	MPa	ASTM D638
Tensile Elongation (Break)	110	%	ASTM D638
Flexural Modulus	2700	MPa	ASTM D790
Flexural Strength	103	MPa	ASTM D790
Compressive Strength	86.0	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C	ASTM D648
CLTE - Flow	6.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+16	ohms·cm	ASTM D257
Dielectric Strength	44	kV/mm	ASTM D149
Dissipation Factor (1 MHz)	0.015		ASTM D150
Arc Resistance	120	sec	ASTM D495

Comparative Tracking Index	232	V	IEC 60112
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	87.0	%	ASTM D1003

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