

U-polymer U-8400H

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	E47924-239934		
Features	Alcohol Resistant		
	Amorphous		
	Good Chemical Resistance		
	Good Weather Resistance		
	Moisture Resistant		
	Oil Resistant		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.00 mm)	0.80	%	ASTM D955
Water Absorption (24 hr, 3.18 mm)	0.12	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	63.0	MPa	ASTM D638
Tensile Elongation (Break)	170	%	ASTM D638
Flexural Modulus	2500	MPa	ASTM D790
Flexural Strength	95.0	MPa	ASTM D790
Compressive Strength	80.0	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	95.0	°C	ASTM D648
CLTE - Flow	6.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+16	ohms · cm	ASTM D257
Dielectric Strength	30	kV/mm	ASTM D149
Dissipation Factor (1 MHz)	0.010		ASTM D150

Arc Resistance	120	sec	ASTM D495
Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	88.0	%	ASTM D1003

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