# U-polymer PT-3020

### Polyarylate

**UNITIKA Plastics Division** 

#### Message:

P series resins are resins succeeding the characteristics of the neat polymer, U-100, and improved in flowability and optical properties. Among many super engineering plastics, the resins are few transparent polymer alloys that have heat resistance. The heat-stable P-series resins have variations different in heat resistance in the range from 150 to 175°C. There are few transparent heat-resistant resins among super engineering plastics, and thus P series resins are valuable. The resins have favorable weather resistance, and in particular, the P- 1001 resin is approved by SAE Standard (J576 and J578) and FMVSS Standard (108). Making the most of these characteristics, the resins may be used, for example, as the lenses for automobile lamps. High flow-type resins, P-1001A, and P-3001S, are also available for thin molding products.

General Information					
UL YellowCard	E47924-239922	E47924-239927			
Features	Good dimensional stability				
	Rigidity, high				
	High elasticity				
	Optical				
	Impact resistance, good				
	Good creep resistance				
	Good liquidity				
	Good weather resistance				
	Heat resistance, high				
	Thermal Stability				
	amorphous				
Uses	Application in Automobile Field				
Forms	Particle				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.36	g/cm³	ASTM D792		
Molding Shrinkage			ASTM D955		
Flow: 3.00mm	0.30 - 0.40	%	ASTM D955		
Transverse flow: 3.00mm	0.40 - 0.50	%	ASTM D955		
Water Absorption (24 hr, 3.18 mm)	0.12	%	ASTM D570		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength	67.0	МРа	ASTM D638		
Tensile Elongation (Break)	6.0	%	ASTM D638		
Flexural Modulus	3800	MPa	ASTM D790		
Flexural Strength	111	MPa	ASTM D790		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact (3.18 mm)	60	J/m	ASTM D256		
Thermal	Nominal Value	Unit	Test Method		

Deflection Temperature Under Load (1.8				
MPa, Unannealed)	165	°C	ASTM D648	
Linear thermal expansion coefficient			ASTM D696	
Flow	3.7E-5	cm/cm/°C	ASTM D696	
Lateral	4.2E-5	cm/cm/°C	ASTM D696	
Additional Information				

CLTE, Flow, ASTM D696: 3.5E-5 to 4.0E-5 cm/cm/°CCLTE, Tranverse, ASTM D696: 3.8E-5 to 4.3E-5 cm/cm/°C

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