# U-polymer L-1003PA

## 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	E47924-239914				
Additive	Lubricant				
Features	Amorphous				
	Good Creep Resistance				
	Good Dimensional Stability				
	Good Flow				
	Good Impact Resistance				
	Good Weather Resistance				
	Heat Stabilized				
	High Heat Resistance				
	Lubricated				
	Opticals				
Uses	Automotive Applications				
Forms	Pellets				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.23	g/cm³	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)	123		ASTM D785		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength	70.0	МРа	ASTM D638		
Tensile Elongation (Break)	60	%	ASTM D638		
Flexural Modulus	2200	MPa	ASTM D790		
Flexural Strength	82.0	MPa	ASTM D790		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact (3.18 mm)	280	J/m	ASTM D256		
Thermal	Nominal Value	Unit	Test Method		

Deflection Temperature Under Load (1.8					
MPa, Unannealed)	175	°C	ASTM D648		
CLTE - Flow	6.2E-5	cm/cm/°C	ASTM D696		
Electrical	Nominal Value	Unit	Test Method		
Volume Resistivity	2.0E+16	ohms·cm	ASTM D257		
Dielectric Strength	31	kV/mm	ASTM D149		
Dielectric Constant (1 MHz)	2.70		ASTM D150		
Dissipation Factor (1 MHz)	0.010		ASTM D150		
Arc Resistance	127	sec	ASTM D495		

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