

U-polymer P-3001S

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			
Features	Amorphous		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Weather Resistance		
	Heat Stabilized		
	High Flow		
	High Heat Resistance		
	High Impact Resistance		
	Opticals		
Uses	Automotive Applications		
	Thin-walled Parts		
Forms	Pellets		
Processing Method	Injection Molding		
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)	0.24	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	66.0	MPa	ASTM D638
Tensile Elongation (Break)	45	%	ASTM D638
Flexural Modulus	2200	MPa	ASTM D790
Flexural Strength	84.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	300	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	169	°C	ASTM D648
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM D696

Optical	Nominal Value	Unit	Test Method
Transmittance (3000 μm)	89.0	%	ASTM D1003

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