

Xuchuan 1001A/B-5301

Thermoplastic Polyurethane Elastomer (Polyether)

Xuchuan Chemical (Suzhou) Co., Ltd

Message:

Xuchuan 1001A/B-5301 is a Thermoplastic Polyurethane Elastomer (Polyether) (TPU-Polyether) product. It is available in Asia Pacific. Typical application: Consumer Goods.
Characteristics include:
Good Aesthetics
Good Dimensional Stability

General Information		
Features	Good Dimensional Stability	
	Good Surface Finish	
	Low Density	
Uses	Footwear	
Physical	Nominal Value	Unit
Density	0.280 to 0.500	g/cm ³
Density		
A-1001A : 40°C	1.010 to 1.020	g/cm ³
B-5301 : 40°C	1.080 to 1.200	g/cm ³
Viscosity		
A-1001A : 40°C	500 to 800	mPa·s
B-5301 : 40°C	300 to 600	mPa·s
Cream Time	7.0 to 9.0	sec
End of Rise Time	50.0 to 60.0	sec
Free Rise Foam Density	130 to 160	kg/m ³
Hydrolysis Strength Retention (70°C) ¹	> 90	%
Preheat Temperature		
Part A	50 to 60	°C
Part B	60 to 70	°C
Preheat Time		
Part A	2.0 to 4.0	hr
Part B	10.0 to 15.0	hr
Processing Temperature		
Part A	30 to 35	°C
Part B	35 to 40	°C
Hardness	Nominal Value	Unit
Durometer Hardness (Shore C)	28 to 50	
Elastomers	Nominal Value	Unit
Tensile Strength (Break)	2.00 to 5.00	MPa

Tensile Elongation (Break)	300 to 380	%
Tear Strength	18.0 to 26.0	kN/m
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 100	
Part B	Mix Ratio by Weight: 45 to 47	
Demold Time	5.0 to 7.0	min
Injection	Nominal Value	Unit
Mold Temperature	45.0 to 55.0	°C
NOTE		
1.	168 hr, 95% RH	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

