

Xuchuan 1003/B-5301

Thermoplastic Polyurethane Elastomer (Polyether)

Xuchuan Chemical (Suzhou) Co., Ltd

Message:

Xuchuan 1003/B-5301 is a Thermoplastic Polyurethane Elastomer (Polyether) (TPU-Polyether) product. It is available in Asia Pacific. Primary characteristic: good weather resistance.

General Information		
Features	Good Weather Resistance	
	Hydrolysis Resistant	
Uses	Tires	
Physical	Nominal Value	Unit
Density	0.500 to 0.600	g/cm ³
Density		
A-1003 : 40°C	1.010 to 1.020	g/cm ³
B-5301 : 40°C	1.080 to 1.200	g/cm ³
Viscosity		
A-1003 : 40°C	300 to 800	mPa·s
B-5301 : 40°C	300 to 600	mPa·s
Akron Abrasion	0.0500 to 0.100	cm ³ /1.61 km
Cream Time	7.0 to 9.0	sec
End of Rise Time	1.0 to 1.2	min
Free Rise Foam Density	240 to 280	kg/m ³
Hydrolysis Strength Retention (70°C) ¹	> 95	%
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
Resilience	30 to 40	%
Hardness	Nominal Value	Unit
Durometer Hardness (Shore A)	55 to 75	
Elastomers	Nominal Value	Unit
Tensile Strength (Break)	3.30 to 5.50	MPa
Tensile Elongation (Break)	280 to 350	%

Tear Strength	11.0 to 20.0	kN/m
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 100	
Part B	Mix Ratio by Weight: 120	
Demold Time	10 to 15	min
Injection	Nominal Value	Unit
Mold Temperature	35.0 to 45.0	°C
NOTE		
1.	168 hr, 95% RH	

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