

# Xuchuan A-7001/B-8001D

Thermoplastic Polyurethane Elastomer (Polyester)

Xuchuan Chemical (Suzhou) Co., Ltd

## Message:

Xuchuan A-7001/B-8001D is a Thermoplastic Polyurethane Elastomer (Polyester) (TPU-Polyester) product. It is available in Asia Pacific. Applications of Xuchuan A-7001/B-8001D include consumer goods and marine applications.

Characteristics include:

Good Aesthetics

High Hardness

Low Temperature Resistant

General Information	
Features	Good Surface Finish
	High Hardness
	Low Density
	Low Temperature Resistant
Uses	Footwear
	Marine Applications

Physical	Nominal Value	Unit
Density	0.410 to 0.600	g/cm <sup>3</sup>
Density		
A-7001 : 40°C	1.010 to 1.020	g/cm <sup>3</sup>
B-8001D : 40°C	1.080 to 1.200	g/cm <sup>3</sup>
Viscosity		
A-7001 : 40°C	1.00 to 1.40	Pa·s
B-8001D : 40°C	0.600 to 0.800	Pa·s
Williams Abrasion	130 to 140	cc/php
Cream Time	6.0 to 8.0	sec
End of Rise Time	30.0 to 40.0	sec
Free Rise Foam Density	210 to 260	kg/m <sup>3</sup>
Hydrolysis Strength Retention (70°C) <sup>1</sup>	> 95	%
Preheat Temperature		
Part A	50 to 60	°C
Part B	50 to 60	°C
Preheat Time		
Part A	8.0 to 10.0	hr
Part B	8.0 to 12.0	hr
Processing Temperature		
Part A	40 to 45	°C
Part B	38 to 42	°C

Hardness	Nominal Value	Unit
Durometer Hardness (Shore A)	75 to 88	
Elastomers	Nominal Value	Unit
Tensile Strength (Break)	6.00 to 10.0	MPa
Tensile Elongation (Break)	400 to 600	%
Tear Strength	21.0 to 30.0	kN/m
Thermoset	Nominal Value	Unit
Thermoset Components		
Part A	Mix Ratio by Weight: 100	
Part B	Mix Ratio by Weight: 110	
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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