

Xuchuan A-9190/B-8290

Thermoplastic Polyurethane Elastomer (Polyester)

Xuchuan Chemical (Suzhou) Co., Ltd

Message:

Xuchuan A-9190/B-8290 is a Thermoplastic Polyurethane Elastomer (Polyester) (TPU-Polyester) product. It is available in Asia Pacific. Typical application: Consumer Goods. Primary characteristic: high hardness.

General Information		
Features	High Hardness	
	Medium Density	
Uses	Footwear	
Physical	Nominal Value	Unit
Density	0.500 to 0.680	g/cm ³
Density		
A-9190 : 40°C	1.010 to 1.020	g/cm ³
B-8290 : 40°C	1.080 to 1.200	g/cm ³
Viscosity		
A-9190 : 40°C	1.00 to 1.40	Pa·s
B-8290 : 40°C	0.800 to 1.20	Pa·s
Williams Abrasion	100 to 200	cc/php
Cream Time	7.0 to 9.0	sec
End of Rise Time	45.0 to 55.0	sec
Free Rise Foam Density	260 to 280	kg/m ³
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)	73 to 90	
Elastomers	Nominal Value	Unit
Tensile Strength (Break)	8.00 to 11.0	MPa
Tensile Elongation (Break)	30 to 410	%
Tear Strength	35.0 to 42.0	kN/m
Thermoset	Nominal Value	Unit

Thermoset Components		
Part A	Mix Ratio by Weight: 100	
Part B	Mix Ratio by Weight: 130	
Demold Time	4.0 to 6.0	min
Injection	Nominal Value	Unit
Mold Temperature	45.0 to 55.0	°C

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