

Xuchuan A-9002/B-6118

Thermoplastic Polyurethane Elastomer (Polyester)

Xuchuan Chemical (Suzhou) Co., Ltd

Message:

Xuchuan A-9002/B-6118 is a Thermoplastic Polyurethane Elastomer (Polyester) (TPU-Polyester) product. It is available in Asia Pacific. Typical application: Consumer Goods.
Characteristics include:
Good Aesthetics
Good Flexibility
High Hardness

| General Information | | |
|-------------------------------|---------------------|-------------------|
| Features | Good Flexibility | |
| | Good Surface Finish | |
| | High Hardness | |
| | Low Density | |
| Uses | Footwear | |
| Physical | Nominal Value | Unit |
| Density | 0.400 to 0.480 | g/cm ³ |
| Density | | |
| A-9002 : 40°C | 1.010 to 1.020 | g/cm ³ |
| B-6118 : 40°C | 1.080 to 1.200 | g/cm ³ |
| Viscosity | | |
| A-9002 : 40°C | 1.20 to 1.80 | Pa·s |
| B-6118 : 40°C | 0.600 to 0.800 | Pa·s |
| Ross Flex (23°C) ¹ | < 8.00 | mm |
| Cream Time | 6.0 to 8.0 | sec |
| End of Rise Time | 25.0 to 30.0 | sec |
| Free Rise Foam Density | 190 to 240 | kg/m ³ |
| Preheat Temperature | | |
| Part A | 50 to 60 | °C |
| Part B | 50 to 60 | °C |
| Preheat Time | | |
| Part A | 6.0 to 8.0 | hr |
| Part B | 6.0 to 8.0 | hr |
| Processing Temperature | | |
| Part A | 40 to 45 | °C |
| Part B | 38 to 42 | °C |
| Hardness | Nominal Value | Unit |
| Durometer Hardness (Shore C) | 70 to 85 | |
| Elastomers | Nominal Value | Unit |

| | | |
|----------------------------|---------------------------------|------|
| Tensile Strength (Break) | 4.20 to 6.90 | MPa |
| Tensile Elongation (Break) | 360 to 450 | % |
| Tear Strength | 18.0 to 27.0 | kN/m |
| Thermoset | Nominal Value | Unit |
| Thermoset Components | | |
| Part A | Mix Ratio by Weight: 100 | |
| Part B | Mix Ratio by Weight: 92 to 94 | |
| Demold Time | 5.0 to 7.0 | min |
| Injection | Nominal Value | Unit |
| Mold Temperature | 55.0 to 65.0 | °C |
| NOTE | | |
| 1. | 40000 cycles, Break length 4 mm | |

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