

Huntsman AVALON® 85 ABU Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Introduction: AVALON 85 ABU is a high performance UV-stabilized polyester based thermoplastic polyurethane for injection molding. AVALON 85 ABU is part of the AVALON Perform Range and offers a premium soling material for the sporting goods and fashion markets and is supplied with a high degree of stabilization against premature yellowing from sunlight. The features offered include:UV resistance Excellent surface definitionAbrasion resistanceFlex resistancePhthalate free TPU Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-AVALON-85-ABU-Thermoplastic-Polyurethane.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|----------|
| Density | 1.20 g/cc | 0.0434 lb/in ³ | ISO 2781 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------|-----------|--------------------------|
| Hardness, Shore A | 85 | 85 | ISO 868 |
| Hardness, Shore D | 37 | 37 | ISO 868 |
| Tensile Strength at Break | 30.0 MPa | 4350 psi | ISO 37 |
| Elongation at Break | 475 % | 475 % | ISO 37 |
| 100% Modulus | 0.00600 GPa | 0.870 ksi | ISO 37 |
| 300% Modulus | 0.0140 GPa | 2.03 ksi | ISO 37 |
| Flexural Modulus | 0.0300 GPa | 4.35 ksi | ISO 178 |
| Tear Strength | 105 kN/m | 599 pli | ISO 34B |
| Abrasion | 35 | 35 | mm³; ISO 4649 |
| Compression Set | 20 % | 20 % | ISO 815 |

| Processing Properties | Metric | English | Comments |
|---------------------------|----------------|----------------|----------|
| Feed Temperature | 25.0 - 35.0 °C | 77.0 - 95.0 °F | |
| Rear Barrel Temperature | 190 - 200 °C | 374 - 392 °F | |
| Middle Barrel Temperature | 195 - 205 °C | 383 - 401 °F | |
| Front Barrel Temperature | 200 - 210 °C | 392 - 410 °F | |
| Nozzle Temperature | 185 - 195 °C | 365 - 383 °F | |
| Mold Temperature | 25.0 - 50.0 °C | 77.0 - 122 °F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------------|-----------------|----------|
| Hold Pressure | 1.00 - 5.00 MPa | 145 - 725 psi | |
| Back Pressure | 0.0300 - 0.300 MPa | 4.35 - 43.5 psi | |
| Screw Speed | 20 - 80 rpm | 20 - 80 rpm | |

| Descriptive Properties | Value | Comments |
|------------------------|----------------|----------|
| Compression Ratio | 2-3:1 | |
| L/D Ratio | 20-25:1 | |
| Ross Flex | -10°C, BS 5131 | |
| Typical Screw Diameter | 40-120 mm | |

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