

Huntsman AVALON® 65 ABX Thermoplastic Polyurethane

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

Material Notes:

Introduction: AVALON 65 ABX is a high performance polyester based thermoplastic polyurethane for injection molding. AVALON 65 ABX is part of the AVALON Perform Range and offers a specially designed, flexible material with improved slip resistance and rubber-like properties, particularly suitable for TPU/PU applications. The features offered include: Improved processing Lower density Excellent surface definition Abrasion resistance Flex resistance Phthalate free TPU Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-AVALON-65-ABX-Thermoplastic-Polyurethane.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|-----------|
| Density | 1.13 g/cc | 0.0408 lb/in ³ | DIN 53479 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|--------------|-------------|-----------------------------|
| Hardness, Shore A | 65 | 65 | DIN 53505 |
| Tensile Strength at Break | >= 20.0 MPa | >= 2900 psi | DIN 53504 |
| Elongation at Break | >= 700 % | >= 700 % | DIN 53504 |
| Tear Strength | >= 25.0 kN/m | >= 143 pli | DIN 53507 |
| Abrasion | <= 60 | <= 60 | mm ³ ; DIN 53516 |

| Processing Properties | Metric | English | Comments |
|---------------------------|--------------------|-----------------|----------|
| Feed Temperature | 25.0 - 35.0 Â°C | 77.0 - 95.0 Â°F | |
| Rear Barrel Temperature | 160 - 180 Â°C | 320 - 356 Â°F | |
| Middle Barrel Temperature | 165 - 185 Â°C | 329 - 365 Â°F | |
| Front Barrel Temperature | 165 - 190 Â°C | 329 - 374 Â°F | |
| Nozzle Temperature | 160 - 185 Â°C | 320 - 365 Â°F | |
| Mold Temperature | 25.0 - 50.0 Â°C | 77.0 - 122 Â°F | |
| Injection Pressure | 2.00 - 10.0 MPa | 290 - 1450 psi | |
| 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 | |
| Flex Life | >100 k cycles | DIN 53522 T3 |
| L/D Ratio | 20-25:1 | |
| Typical Screw Diameter | 40-120 nm | |

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