

Huntsman AVALON[®] 90 AKU Thermoplastic Polyurethane

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

Material Notes:

Introduction: AVALON 90 AKU is a part of the AVALON Crystal Range and offers a specially designed, flexible material with a higher degree of transparency compared with conventional TPU at the same hardness. AVALON Crystal materials are particularly suitable for the sporting goods and fashion markets. It is recommended that a suitable UV stabilizer be incorporated for most applications to prevent premature yellowing. The features offered include: UV resistance, Transparency, Durability, Phthalate free TPU. Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-AVALON-90-AKU-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ISO 2781

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ISO 868
Hardness, Shore D	44	44	ISO 868
Tensile Strength at Break	45.0 MPa	6530 psi	ISO 37
Elongation at Break	450 %	450 %	ISO 37
100% Modulus	0.00800 GPa	1.16 ksi	ISO 37
300% Modulus	0.0160 GPa	2.32 ksi	ISO 37
Tear Strength	110 kN/m	628 pli	ISO 34B
Abrasion	50	50	mm ³ ; ISO 4649

Processing Properties	Metric	English	Comments
Feed Temperature	25.0 - 35.0 Â°C	77.0 - 95.0 Â°F	
Rear Barrel Temperature	195 - 205 Â°C	383 - 401 Â°F	
Middle Barrel Temperature	205 - 215 Â°C	401 - 419 Â°F	
Front Barrel Temperature	210 - 220 Â°C	410 - 428 Â°F	
Nozzle Temperature	205 - 215 Â°C	401 - 419 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	

Processing Properties	Metric	English	Comments
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	-10Â°C, BS 5131	
Typical Screw Diameter	40-120 mm	

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