

BASF Elastollan S 60 A SPF TPUR

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

Material Notes:

Description: Thermoplastic Polyester Polyurethane Elastomers with excellent mechanical properties and wear resistance, good damping characteristics and a high resilience performance. Typical Applications: Shoe-soles, top pieces, tubes, technical parts e.g. castor tyres. Note: Quoted results are from measurements on injection molded test platens, post tempered for 20 hours at 100°C Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Elastollan-S-60-A-SPF-TPUR.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|--------------|
| Density | 1.20 g/cc | 0.0434 lb/in ³ | ISO 1183-1-A |

| Mechanical Properties | Metric | English | Comments |
|------------------------|-----------------------|-----------------------|------------------------------|
| Hardness, Shore A | 60 | 60 | ISO 868 |
| Tensile Strength | 40.0 MPa | 5800 psi | ISO 37 |
| | 1.00 MPa | 145 psi | ISO 37 |
| | @Strain 20.0 % | @Strain 20.0 % | |
| | 2.40 MPa | 348 psi | ISO 37 |
| | @Strain 100 % | @Strain 100 % | |
| | 4.20 MPa | 609 psi | ISO 37 |
| | @Strain 300 % | @Strain 300 % | |
| Elongation at Break | 850 % | 850 % | ISO 37 |
| Charpy Impact, Notched | NB | NB | DIN EN ISO 179 |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| | NB | NB | DIN EN ISO 179 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Tear Strength | 50.0 kN/m | 285 pli | DIN ISO 34-1/Bb |
| Abrasion | 30 | 30 | [mm ³]; ISO 4649 |
| Compression Set | 25 % | 25 % | ISO 815 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 40 % | 40 % | ISO 815 |
| | @Temperature 70.0 °C | @Temperature 158 °F | |

| Processing Properties | Metric | English | Comments |
|------------------------|----------------|---------------|-------------------|
| Processing Temperature | 175 - 220 °C | 347 - 428 °F | Extrusion |
| | 175 - 240 °C | 347 - 464 °F | Injection molding |
| Mold Temperature | 20.0 - 70.0 °C | 68.0 - 158 °F | |

| Descriptive Properties | Value | Comments |
|------------------------------|---------------------------------|----------|
| Commercial Status | North America | |
| Primary Processing Technique | Injection molding and Extrusion | |

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