

Mearthane Durethane S DS-270A Solid Polyurethane Elastomer

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Elastomer, Unreinforced , Rubber or Thermoset Elastomer (TSE)

Material Notes:

TDI backbone: ester. Summary: Durethane S is a solid urethane elastomer. Formulations are individually compounded and tested to meet OEM requirements for durometer, tensile strength, tear strength, elongation, coefficient of friction, abrasion resistance, compression set, compression modulus, tensile modulus, resilience, solvent resistance and color. Applications: Mearthane will custom-manufacture industrial product, wheels, and other components to customer specifications. Durethane S is a machinable to fine surface finishes. Typical applications include: rollers pads, bumpers, and other components in paper handling mechanisms for business machines such as: printers, copiers, fax machines, postage meters, collators, and ATMs. Other applications include: inline skatewheels, skateboard wheels, castors, shock absorbers, springs and elastomeric die blocks. Conductivity: All Durethane elastomers can be formulated to be electrically conductive, for applications involving electrostatic dissipation (ESD). Mearthane's proprietary conductivity process does not comprise the material performance specification of the urethane. Information provided by Mearthane Products Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mearthane-Durethane-S-DS-270A-Solid-Polyurethane-Elastomer.php

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------------------------------|------------------------------|----------------------|
| Hardness, Shore A | 70 | 70 | ASTM D2240 |
| Elongation at Break | 955 % | 955 % | ASTM D412 |
| 100% Modulus | 0.00296 GPa | 0.429 ksi | ASTM D412 |
| Tear Strength | 52.6 kN/m | 300 pli | Die C; ASTM D624 |
| Compression Set | 19 % @Temperature 70.0 Â°C | 19 % @Temperature 158 Â°F | 22 hours; ASTM D395B |

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