

## BASF Elastollan 664 DU 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: Decorative parts and damping elements for the sport-shoe industry, ski tips, tubes and films. 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-664-DU-TPUR.php](http://www.lookpolymers.com/polymer_BASF-Elastollan-664-DU-TPUR.php)

| Physical Properties | Metric    | English                   | Comments     |
|---------------------|-----------|---------------------------|--------------|
| Density             | 1.23 g/cc | 0.0444 lb/in <sup>3</sup> | ISO 1183-1-A |

| Mechanical Properties  | Metric                  | English                    | Comments                                           |
|------------------------|-------------------------|----------------------------|----------------------------------------------------|
| Hardness, Shore D      | 65                      | 65                         | ISO 686                                            |
| Tensile Strength       | 40.0 MPa                | 5800 psi                   | ISO 37                                             |
|                        | 40.0 MPa                | 5800 psi                   | after storage in water at 80°C for 42 days; ISO 37 |
|                        | 12.0 MPa                | 1740 psi                   | ISO 37                                             |
|                        | @Strain 20.0 %          | @Strain 20.0 %             |                                                    |
|                        | 20.0 MPa                | 2900 psi                   | ISO 37                                             |
|                        | @Strain 100 %           | @Strain 100 %              |                                                    |
| Elongation at Break    | 350 %                   | 350 %                      | ISO 37                                             |
|                        | 400 %                   | 400 %                      | after storage in water at 80°C for 42 days; ISO 37 |
| Charpy Impact, Notched | 0.900 J/cm <sup>2</sup> | 4.28 ft-lb/in <sup>2</sup> | 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          | 130 kN/m                | 742 pli                    | DIN ISO 34-1/Bb                                    |
| Abrasion               | 30                      | 30                         | [mm<sup>3</sup>; ISO 4649                          |
| Compression Set        | 35 %                    | 35 %                       | ISO 815                                            |
|                        | @Temperature 23.0 °C    | @Temperature 73.4 °F       |                                                    |
|                        | 40 %                    | 40 %                       |                                                    |

| Mechanical Properties | Metric<br>@ Temperature 70.0 °C | English<br>@ Temperature 158 °F | ISO 815<br>Comments |
|-----------------------|---------------------------------|---------------------------------|---------------------|
|-----------------------|---------------------------------|---------------------------------|---------------------|

| Processing Properties  | Metric         | English       | Comments          |
|------------------------|----------------|---------------|-------------------|
| Processing Temperature | 175 - 230 °C   | 347 - 446 °F  | Injection molding |
| Mold Temperature       | 20.0 - 70.0 °C | 68.0 - 158 °F |                   |

| Descriptive Properties       | Value             | Comments |
|------------------------------|-------------------|----------|
| Color                        | Transparent       |          |
| Commercial Status            | North America     |          |
| Primary Processing Technique | Injection molding |          |

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