

Dow Pellethane® 2354-45D Polyurethane Elastomer, Polyester Polycaprolactone Based (discontinued **)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Polyester Grade

Material Notes:

PELLETHANE® 2354-45D elastomer is a polyester polycaprolactone based polyurethane elastomer used in automotive applications. It allows fast molding, and once molded can be painted with polyurethane and acrylic enamels or water based elastomeric paints without a primer. Data provided by Dow Chemical. This product is no longer a part of the PELLETHANE® product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Pellethane-2354-45D-Polyurethane-Elastomer-Polyester-Polycaprolactone-Based-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|---------------------|---|---|----------|
| Density | 1.19 g/cc | 0.0430 lb/in ³ | |
| Melt Flow | 20 g/10 min @Load 1.20 kg, Temperature 224 °C | 20 g/10 min @Load 2.65 lb, Temperature 435 °F | |

| Mechanical Properties | Metric | English | Comments |
|--------------------------------|----------------------|---------------------|----------------------------|
| Hardness, Shore D | 46 | 46 | |
| Tensile Strength at Break | 39.7 MPa | 5760 psi | Tensile stress at break. |
| Elongation at Break | 500 % | 500 % | |
| 50% Modulus | 0.00690 GPa | 1.00 ksi | |
| 100% Modulus | 0.00896 GPa | 1.30 ksi | |
| 300% Modulus | 0.0190 GPa | 2.76 ksi | |
| Secant Modulus | 0.0690 GPa | 10.0 ksi | 2% Secant Modulus |
| Tear Strength | 120 kN/m | 685 pli | |
| Taber Abrasion, mg/1000 Cycles | 10 | 10 | H22 Wheel |
| Compression Set | 30 % | 30 % | 23°C. |
| | 33 % | 33 % | |
| | @Temperature 70.0 °C | @Temperature 158 °F | |
| Tensile Set | 80 % | 80 % | Elongation set after break |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Thermal Properties | 153 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric | 85.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English | Comments |
|----------------------------------|---|---|----------|
| | @Temperature 20.0 °C | @Temperature 68.0 °F | |
| Vicat Softening Point | 117 °C | 243 °F | |
| Clash Berg Stiffness Temperature | -17.8 °C | -0.0400 °F | |

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