

## GRECO ISOTHANE 2058A Poly(caprolactone)ester TPU Resin

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

**Material Notes:**

ISOTHANE 2000 series products are polyester poly(caprolactone)ester based thermoplastic polyurethane. They exhibit excellent toughness, abrasive resistance, solvent resistance, and hydrolysis stability. These products can be injection molded, blow molded, and extruded. Information provided by Greater Eastern Resins Industrial Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_GRECO-ISOTHANE-2058A-Polycaprolactoneester-TPUResin.php](http://www.lookpolymers.com/polymer_GRECO-ISOTHANE-2058A-Polycaprolactoneester-TPUResin.php)

| Physical Properties | Metric    | English   | Comments  |
|---------------------|-----------|-----------|-----------|
| Specific Gravity    | 1.18 g/cc | 1.18 g/cc | ASTM D792 |

| Mechanical Properties          | Metric  | English   | Comments               |
|--------------------------------|---|---|------------------------|
| Hardness, Shore A              | 85  | 85  | ASTM D2240             |
| Tensile Strength               | 39.0 MPa  | 5660 psi  | ASTM D412              |
| Tensile Strength, Yield        | 3.90 MPa<br>@Strain 50.0 %                          | 566 psi<br>@Strain 50.0 %                           | ASTM D412              |
|                                | 5.60 MPa<br>@Strain 100 %                           | 812 psi<br>@Strain 100 %                            | ASTM D412              |
|                                | 13.0 MPa<br>@Strain 300 %                           | 1890 psi<br>@Strain 300 %                           | ASTM D412              |
| Elongation at Break            | 530 %   | 530 %   | ASTM D412              |
| Tear Strength                  | 80.0 kN/m   | 456 pli   | ASTM D624              |
| Taber Abrasion, mg/1000 Cycles | 15  | 15  | ASTM D1044(Taber) H-22 |
| Compression Set                | 30 %<br>@Temperature 23.0<br>Â°C,<br>Time 79200 sec | 30 %<br>@Temperature 73.4<br>Â°F,<br>Time 22.0 hour | ASTM D395              |
|                                | 35 %<br>@Temperature 70.0<br>Â°C,<br>Time 79200 sec | 35 %<br>@Temperature 158 Â°F,<br>Time 22.0 hour     | ASTM D395              |

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