

## Termopol Termoton® K2GA5080A TPE Compound, based on SEBS and Polyolefins

Category : Polymer , Thermoplastic , Elastomer, TPE , Olefinic TPE , Styrenic TPE

### Material Notes:

**Main Characteristics:** Wide range of hardness; High strength elasticity; 100% recyclable; Easy processing by means of the traditional technologies for thermoplastic materials; Additional resistance to heat, UV, O, and weathering; Excellent resistance to several chemical agents like bases, acids, alcohols, detergents etc; Transparency-easy coloring; Heat adhesion on rigid polymeric materials like PA, PC, ABS, PMMA, PS, SAN, TPU polymers; High elastic recovery within a wide temperature range; Soft rubbery touch, excellent wet and dry grip; Low compression set even at high temperature; High fatigue resistance; High thermal and electric insulation values; Good abrasion resistance; Many products meet FDA and REACH regulations  
Information provided by Termopol Termoplastik Elastomer

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Termopol-Termoton-K2GA5080A-TPE-Compound-based-on-SEBS-and-Polyolefins.php](http://www.lookpolymers.com/polymer_Termopol-Termoton-K2GA5080A-TPE-Compound-based-on-SEBS-and-Polyolefins.php)

| Physical Properties | Metric                                 | English                                 | Comments |
|---------------------|--|---|----------|
| Density             | 1.16 g/cc                              | 0.0419 lb/in <sup>3</sup>               | ISO 2781 |
| Deformation         | 64 %                                   | 64 %                                    |          |
|                     | @Temperature 700 °C,<br>Time 79200 sec | @Temperature 1290 °F,<br>Time 22.0 hour |          |

| Mechanical Properties | Metric      | English  | Comments |
|-----------------------|-------------|----------|----------|
| Hardness, Shore A     | 80          | 80       | ISO 868  |
| Tensile Strength      | 8.50 MPa    | 1230 psi | ISO 37   |
| Elongation at Break   | 450 %       | 450 %    | ISO 37   |
| 100% Modulus          | 0.00740 GPa | 1.07 ksi | ISO 37   |
| 300% Modulus          | 0.00810 GPa | 1.17 ksi | ISO 37   |

| Thermal Properties               | Metric   | English  | Comments |
|----------------------------------|----------|----------|----------|
| Maximum Service Temperature, Air | 110 °C   | 230 °F   |          |
| Minimum Service Temperature, Air | -50.0 °C | -58.0 °F |          |
| Flammability, UL94               | V-0      | V-0      |          |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Nozzle Temperature    | 185 °C | 365 °F  |          |
| Zone 1                | 160 °C | 320 °F  |          |

| <b>Zone 2</b><br>Processing Properties | <b>170 °C</b><br>Metric   | <b>338 °F</b><br>English  | Comments |
|--|---------------------------|---------------------------|----------|
| Zone 3                                 | 180 °C                    | 356 °F                    |          |
| Mold Temperature                       | 20.0 - 40.0 °C            | 68.0 - 104 °F             |          |
| Drying Temperature                     | 90.0 °C<br>@Time 7200 sec | 194 °F<br>@Time 2.00 hour |          |
| Back Pressure                          | 0.340 MPa                 | 49.3 psi                  |          |
| Screw Speed                            | 25 - 75 rpm               | 25 - 75 rpm               |          |

| <b>Descriptive Properties</b> | <b>Value</b> | <b>Comments</b> |
|-------------------------------|--------------|-----------------|
| Acid-Base Resistance          | Excellent    |                 |
| Alcohol Resistance            | Excellent    |                 |
| Compression Set               | Good         |                 |
| Injection Pressure            | Medium       |                 |
| Injection Speed               | Medium-high  |                 |
| Motor Oil Resistance          | Medium       |                 |
| Plasticizing Speed            | High         |                 |
| Solvent Resistance            | Medium       |                 |
| UV-Ozone Stability            | Excellent    |                 |

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