

## A. Schulman POLYTROPE™ TPP 518 Injection Grade Olefinic Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Olefinic TPE , Thermoplastic Olefinic Elastomer (TPO)

### Material Notes:

Description Polytrope TPP 518 is an injection grade olefinic thermoplastic elastomer. This mineral filled product is recommended for applications requiring high stiffness and low thermal expansion in combination with good impact strength. Typical applications would include automotive claddings and rocker panels. TPP 518 is paintable and can be provided UV stable. Information provided by A. Schulman.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_A-Schulman-POLYTROPE-TPP-518-Injection-Grade-Olefinic-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_A-Schulman-POLYTROPE-TPP-518-Injection-Grade-Olefinic-Thermoplastic-Elastomer.php)

| Physical Properties    | Metric               | English              | Comments                     |
|------------------------|----------------------|----------------------|------------------------------|
| Specific Gravity       | 0.980 g/cc           | 0.980 g/cc           | ASTM D792                    |
| Linear Mold Shrinkage  | 0.0080 - 0.010 cm/cm | 0.0080 - 0.010 in/in | as molded                    |
|                        | 0.012 cm/cm          | 0.012 in/in          | ± 0.1 after 30 min. at 120°C |
| Melt Index of Compound | 10 g/10 min          | 10 g/10 min          | ASTM D1238                   |

| Mechanical Properties   | Metric                | English               | Comments   |
|-------------------------|-----------------------|-----------------------|------------|
| Hardness, Shore D       | 63                    | 63                    | ASTM D2240 |
| Tensile Strength, Yield | 19.0 MPa              | 2750 psi              | ASTM D638  |
| Elongation at Break     | 300 %                 | 300 %                 | ASTM D638  |
| Flexural Modulus        | 1.24 GPa              | 180 ksi               | ASTM D790  |
| Gardner Impact          | 32.0 J                | 23.6 ft-lb            |            |
|                         | @Temperature -30.0 °C | @Temperature -22.0 °F |            |

| Thermal Properties      | Metric               | English              | Comments  |
|-------------------------|----------------------|----------------------|-----------|
| CTE, linear             | 65.0 µm/m-°C         | 36.1 µin/in-°F       | ASTM D696 |
|                         | @Temperature 20.0 °C | @Temperature 68.0 °F |           |
| Brittleness Temperature | -30.0 °C             | -22.0 °F             |           |

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