

## Mytex Polymers AS319LW-01US Thermoplastic Polyolefin, 19% Talc Filled

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

### Material Notes:

AS319LW-01US is a compounded thermoplastic polyolefin (TPO) designed for exterior automotive applications requiring cold temperature impact, processability and paintability. Available in natural, generic black or pre-colored for partial paint applications. Key Applications:

Exterior Parts-Bumper Fascia, Cladding OEM Approvals: Chrysler MS-DC 256 Type C, CPN 3059 (MIC), CPN 4538 (Paint) CP 112 Information provided by Mytex Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Mytex-Polymers-AS319LW-01US-Thermoplastic-Polyolefin-19-Talc-Filled.php](http://www.lookpolymers.com/polymer_Mytex-Polymers-AS319LW-01US-Thermoplastic-Polyolefin-19-Talc-Filled.php)

| Physical Properties   | Metric                                 | English                                | Comments                            |
|-----------------------|----------------------------------------|----------------------------------------|-------------------------------------|
| Density               | 1.03 g/cc                              | 0.0372 lb/in <sup>3</sup>              | ISO 1183 A                          |
| Linear Mold Shrinkage | 0.0050 - 0.0070 cm/cm                  | 0.0050 - 0.0070 in/in                  | 48 hours after molding; ISO 294-3/4 |
|                       | 0.0060 - 0.0080 cm/cm                  | 0.0060 - 0.0080 in/in                  | 48 hours after molding; ISO 294-3/4 |
|                       | @Temperature 80.0 °C,<br>Time 3600 sec | @Temperature 176 °F,<br>Time 1.00 hour |                                     |
| Melt Flow             | 0.0070 - 0.0090 cm/cm                  | 0.0070 - 0.0090 in/in                  | 48 hours after molding; ISO 294-3/4 |
|                       | @Temperature 121 °C,<br>Time 3600 sec  | @Temperature 250 °F,<br>Time 1.00 hour |                                     |
|                       | 24 g/10 min                            | 24 g/10 min                            | ISO 1133 B                          |
|                       | @Load 2.16 kg,<br>Temperature 230 °C   | @Load 4.76 lb,<br>Temperature 446 °F   |                                     |
| Ash                   | 19 %                                   | 19 %                                   | ISO 3451/1A                         |
|                       | @Temperature 600 °C                    | @Temperature 1110 °F                   |                                     |

| Mechanical Properties        | Metric                 | English                    | Comments                                                  |
|------------------------------|------------------------|----------------------------|-----------------------------------------------------------|
| Tensile Strength, Yield      | 17.0 MPa               | 2470 psi                   | ISO 527-1/1A/50                                           |
| Flexural Modulus             | 1.70 GPa               | 247 ksi                    | Chord, 2mm/min; ISO 178                                   |
| Izod Impact, Unnotched (ISO) | 46.0 kJ/m <sup>2</sup> | 21.9 ft-lb/in <sup>2</sup> | ISO 180/1eA                                               |
|                              | @Temperature 23.0 °C   | @Temperature 73.4 °F       |                                                           |
| Dart Drop, Total Energy      | 16.0 J                 | 11.8 ft-lb                 | Multiaxial Impact Strength, Max Load, 2.2 m/s; ASTM D3763 |
|                              | @Temperature 23.0 °C   | @Temperature 73.4 °F       |                                                           |

| Thermal Properties                 | Metric | English | Comments                            |
|------------------------------------|--------|---------|-------------------------------------|
| Deflection Temperature at 0.46 MPa | 102 °C | 216 °F  | Method A, flatwise, unannealed; ISO |

| (56 psi)<br>Thermal Properties                 | Metric  | English | 75-1/2<br>Comments                            |
|------------------------------------------------|---------|---------|-----------------------------------------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 55.0 °C | 131 °F  | Method A, flatwise, unannealed; ISO<br>75-1/2 |

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