

Sumitomo Chemical ESPOLEX[®] WT485 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

ESPOLEX[®] TPE Series is a group of thermoplastic elastomers produced by Sumitomo Chemical Company. Among its material advantages, ESPOLEX[®] TPE Series is distinguished by offering many low-density grades that can provide substantial weight and cost savings over higher-density thermoplastic elastomers. In this regard, SUMITOMO CHEMICAL introduces specific gravity as a significant factor in reducing unit cost and weight. Products molded from ESPOLEX[®] TPE Series exhibit rubber-like properties that range from a soft elastic to a semi-hard rubber material. Like all thermoplastic elastomers, ESPOLEX[®] TPE Series offers substantial savings over thermoset rubber in manufacturing since it is processed using standard thermoplastic processing equipment and techniques, and it does not require the vulcanization required by conventional rubbers. Information provided by Sumitomo Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Chemical-ESPOLEX-WT485-Thermoplastic-Elastomer.php

| Physical Properties | Metric | English | Comments |
|---------------------|-------------------------------|-------------------------------|------------|
| Density | 0.880 g/cc | 0.0318 lb/in ³ | ASTM D792 |
| Melt Flow | 25 g/10 min @Load 10.00 kg | 25 g/10 min @Load 22.05 lb | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------------------------------|------------------------------|-------------------------|
| Hardness, Shore A | 57 | 57 | 0 Sec Delay; ASTM D2240 |
| Tensile Strength at Break | 7.40 MPa | 1070 psi | ASTM D412 |
| Elongation at Break | 790 % | 790 % | ASTM D412 |
| Compression Set | 42 % @Temperature 70.0 Å°C | 42 % @Temperature 158 Å°F | ASTM D395 |

| Processing Properties | Metric | English | Comments |
|---------------------------|---------------|---------------|----------|
| Middle Barrel Temperature | 205 - 245 Å°C | 401 - 473 Å°F | |

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