

Styron INSPIRE[®],ç TF1500 ESU Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Talc filled, high impact PP compound. INSPIRE[®],ç TF1500 ESU has been developed for aesthetic automotive applications, with good scratch resistance and UV light stabilization. Information provided by Dow The Inspire brand was spun off from Dow Chemical to Styron in 2010

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-INSPIRE-TF1500-ESU-Polypropylene.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|----------|
| Density | 1.02 g/cc | 0.0368 lb/in ³ | |
| Filler Content | 15 % | 15 % | Talc |
| Melt Flow | 9.5 g/10 min @Load 2.16 kg, Temperature 230 °C | 9.5 g/10 min @Load 4.76 lb, Temperature 446 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--|--|--------------------------------|
| Tensile Strength, Yield | 20.0 MPa | 2900 psi | 50mm/min; ISO 527 |
| Elongation at Break | 70 % | 70 % | 50 mm/min; ISO 527 |
| Tensile Modulus | 1.95 GPa | 283 ksi | 1 mm/min; ISO 527 |
| Flexural Modulus | 1.85 GPa | 268 ksi | 3 points and 2 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 25.0 kJ/m ² | 11.9 ft-lb/in ² | ISO 180/1A |
| | 5.00 kJ/m ² @Temperature -40.0 °C | 2.38 ft-lb/in ² @Temperature -40.0 °F | ISO 180/1A |
| | 10.0 kJ/m ² @Temperature 0.000 °C | 4.76 ft-lb/in ² @Temperature 32.0 °F | ISO 180/1A |

| Thermal Properties | Metric | English | Comments |
|---|---|--|--------------------|
| CTE, linear | 85.0 µm/m-°C @Temperature 20.0 °C | 47.2 µin/in-°F @Temperature 68.0 °F | ASTM D696 |
| Deflection Temperature at 0.46 MPa (66 psi) | 110 °C | 230 °F | Unannealed; ISO 75 |

| Deflection Temperature at 1.8 MPa Thermal Properties (104 psi) | 58.0 Â°C Metric | 136 Â°F English | Unannealed; ISO 75 Comments |
|--|--------------------|--------------------|--------------------------------|
| Vicat Softening Point | 135 Â°C | 275 Â°F | ISO 306 A |
| Shrinkage | 0.90 - 1.2 % | 0.90 - 1.2 % | |

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