

Huntsman IROGRAN® A 92 P 4851 Ether-Based TPU-For Cable Industry

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether Grade

Material Notes:

Introduction: IROGRAN A 92 P 4851 is a thermoplastic polyether- polyurethane for injection molding and extrusion applications. Additional characteristics of the product are high extrudability and low-adhesion surfaces. Performance Features: Excellent hydrolysis resistance High microbial resistance High stability of melt High production rates Low-adhesion surfaces Applications: For the production of jacket material for cables, jackets for high pressure hose spiral hoses, profiles Information provided by Huntsman

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-92-P-4851-Ether-Based-TPU-For-Cable-Industry.php

| Physical Properties | Metric | English | Comments |
|------------------------|--|--|-------------------------|
| Specific Gravity | 1.14 g/cc | 1.14 g/cc | |
| Melt Index of Compound | 55 g/10 min @Load 21.6 kg, Temperature 190 Å°C | 55 g/10 min @Load 47.6 lb, Temperature 374 Å°F | cm ³ /10 min |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---|---|----------------------------|
| Hardness, Shore A | 93 | 93 | ASTM D2240 |
| Hardness, Shore D | 42 | 42 | ASTM D2240 |
| Tensile Strength at Break | 40.0 MPa | 5800 psi | DIN 53504 |
| Elongation at Break | 500 % | 500 % | DIN 53504 |
| 100% Modulus | 0.0100 GPa | 1.45 ksi | DIN 53504 |
| 300% Modulus | 0.0160 GPa | 2.32 ksi | DIN 53504 |
| Rebound | 33 % | 33 % | Bayshore |
| Tear Strength | 65.0 kN/m | 371 pli | ISO 34-1 |
| Abrasion | 35 | 35 | mm ³ ; ISO 4549 |
| Compression Set | 25 % @Temperature 23.0 Å°C, Time 86400 sec | 25 % @Temperature 73.4 Å°F, Time 24.0 hour | ASTM D395 |
| | 45 % @Temperature 70.0 Å°C, Time 86400 sec | 45 % @Temperature 158 Å°F, Time 24.0 hour | ASTM D395 |

| Thermal Properties | Metric | English | Comments |
|--------------------|---------------|---------------|----------|
| Melting Point | 160 - 171 Å°C | 320 - 340 Å°F | |

| Processing Properties | Metric | English | Comments |
|--------------------------|-----------------|----------------|-----------|
| Feed Temperature | 25.0 - 40.0 Å°C | 77.0 - 104 Å°F | Extrusion |
| Front Barrel Temperature | 165 - 190 Å°C | 329 - 374 Å°F | Extrusion |
| Nozzle Temperature | 170 - 200 Å°C | 338 - 392 Å°F | Extrusion |
| | 180 - 200 Å°C | 356 - 392 Å°F | Injection |
| Adapter Temperature | 175 - 195 Å°C | 347 - 383 Å°F | Extrusion |
| Die Temperature | 175 - 200 Å°C | 347 - 392 Å°F | Extrusion |
| Melt Temperature | 170 - 195 Å°C | 338 - 383 Å°F | |
| Mold Temperature | 20.0 - 70.0 Å°C | 68.0 - 158 Å°F | Injection |

| Descriptive Properties | Value | Comments |
|------------------------|------------|-----------|
| Heating Zone | 175-195Å°C | Injection |

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