

Huntsman IROGRAN® A 85 D 5001 DP TPU-Polyester

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

Introduction: IROGRAN A 85 D 5001 DP is a antistatic, polyester based thermoplastic polyurethane intended for extrusion applications and injection molding. IROGRAN A 85 D 5001 DP is part of the HUNTSMAN technical extrusion product range and offers a specially designed, flexible material with a broad processing window particularly suitable in flat die, cast die extrusion processes. IROGRAN A 85 D 5001 DP is a development material. Performance Features: Excellent wear performance Good processability Antistatic behavior Good melt flow High elasticity Information provided by Alliance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Huntsman-IROGRAN-A-85-D-5001-DP-TPU-Polyester.php

| Physical Properties | Metric | English | Comments |
|------------------------|---|---|-----------------------------------|
| Density | 1.19 g/cc | 0.0430 lb/in ³ | Injection molded parts; ASTM D792 |
| Melt Index of Compound | 75 g/10 min @Load 21.6 kg, Temperature 190 °C | 75 g/10 min @Load 47.6 lb, Temperature 374 °F | MVR, [cm ³ /10 min] |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------|-----------|---|
| Hardness, Shore A | 85 | 85 | Injection molded parts; ASTM D2240 |
| Hardness, Shore D | 34 | 34 | Injection molded parts; ASTM D2240 |
| Tensile Strength at Break | 40.0 MPa | 5800 psi | Injection molded parts; DIN 53504 |
| Elongation at Break | 620 % | 620 % | Injection molded parts; DIN 53504 |
| 100% Modulus | 0.00500 GPa | 0.725 ksi | Injection molded parts; DIN 53504 |
| 300% Modulus | 0.0110 GPa | 1.60 ksi | Injection molded parts; DIN 53504 |
| Rebound | 36 % | 36 % | Bayshore, Injection molded parts; ASTM D2632 |
| Tear Strength | 105 kN/m | 600 pli | Injection molded parts; ASTM D624 |
| Abrasion | 25 | 25 | mm ³ , Injection molded; DIN 53516 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-------------|-------------|------------------------|
| Surface Resistance | 1.00e+8 ohm | 1.00e+8 ohm | Injection molded parts |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|---------------|-----------|
| Feed Temperature | 25.0 - 40.0 °C | 77.0 - 104 °F | Extrusion |

| Processing Properties | Metric | English | Comments |
|---------------------------|-----------------|----------------|-----------|
| Middle Barrel Temperature | 180 - 205 Â°C | 356 - 401 Â°F | Extrusion |
| Nozzle Temperature | 185 - 205 Â°C | 365 - 401 Â°F | Extrusion |
| | 185 - 210 Â°C | 365 - 410 Â°F | Injection |
| Adapter Temperature | 180 - 205 Â°C | 356 - 401 Â°F | Extrusion |
| Die Temperature | 185 - 205 Â°C | 365 - 401 Â°F | Extrusion |
| Mold Temperature | 20.0 - 50.0 Â°C | 68.0 - 122 Â°F | Injection |

| Descriptive Properties | Value | Comments |
|------------------------|------------|-----------|
| Heating Zone | 190-210Â°C | Injection |

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