

Teknor Apex Uniprene® UN-2420D Thermoplastic Vulcanizate

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

Material Notes:

Notes: Injection Rate: Fast Uses: Expansion Joint; Grommets; Tubing; Gaskets; Plugs; Weatherstripping; Glazing; Shock Absorbing Pads

Forms: Pellets Processing Method: Extrusion; Injection Molding Extrusion Notes: Screw Speed: 30 to 100 rpm Information Provided by

Teknor Apex

Order this product through the following link:

http://www.lookpolymers.com/polymer_Teknor-Apex-Uniprene-UN-2420D-Thermoplastic-Vulcanizate.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------------------------|--------------------------------------|------------|
| Specific Gravity | 0.930 g/cc | 0.930 g/cc | ASTM D792 |
| Melt Flow | 6.00 g/10 min | 6.00 g/10 min | ASTM D1238 |
| | @Load 2.16 kg, Temperature 230 °C | @Load 4.76 lb, Temperature 446 °F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---------------|---------------|----------------------|
| Hardness, Shore A | 70 | 70 | 1 second; ASTM D2240 |
| Tensile Strength at Break | 7.45 MPa | 1080 psi | ASTM D412 |
| Tensile Stress | 4.31 MPa | 625 psi | ASTM D412 |
| | @Strain 100 % | @Strain 100 % | |
| Elongation at Break | 330 % | 330 % | ASTM D412 |

| Processing Properties | Metric | English | Comments |
|---------------------------|--------------|--------------|----------|
| Rear Barrel Temperature | 173 - 213 °C | 344 - 416 °F | |
| Middle Barrel Temperature | 179 - 219 °C | 354 - 426 °F | |
| Front Barrel Temperature | 184 - 224 °C | 364 - 436 °F | |
| Nozzle Temperature | 190 - 230 °C | 374 - 446 °F | |
| Zone 1 | 166 - 204 °C | 330 - 400 °F | |
| Zone 2 | 171 - 210 °C | 340 - 410 °F | |
| Zone 3 | 177 - 216 °C | 350 - 420 °F | |
| Zone 5 | 182 - 221 °C | 360 - 430 °F | |
| Die Temperature | 190 - 227 °C | 374 - 440 °F | |

| Melt Temperature Processing Properties | 190 - 230 °C Metric | 374 - 446 °F English | Processing Temperature Comments |
|---|------------------------|-------------------------|------------------------------------|
| Mold Temperature | 35.0 - 60.0 °C | 95.0 - 140 °F | |
| Injection Pressure | 1.38 - 6.89 MPa | 200 - 1000 psi | |
| Back Pressure | 0.172 - 0.862 MPa | 25.0 - 125 psi | |
| Cushion | 0.381 - 2.54 cm | 0.150 - 1.00 in | |
| Screw Speed | 50 - 120 rpm | 50 - 120 rpm | |

| Descriptive Properties | Value | Comments |
|------------------------|--------|----------|
| Appearance | Opaque | |

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