apilon 52® TL 45 NS

Thermoplastic Polyurethane Elastomer (Polyether)

API SpA

Message:

apilon 52®TL 45 NS is a thermoplastic polyurethane elastomer (polyether)(TPU-polyether) product. It can be processed by injection molding and is available in Europe. apilon 52®The application areas of TL 45 NS include engineering/industrial accessories, electrical/electronic applications, electrical appliances, tools and home applications. Features include:

environmental protection/green low temperature resistance

| General Information | | | | | |
|---------------------|---------------------------------------|-------|-------------|--|----------------------------|
| Features | Antimicrobial Recyclable materials | | | | |
| | | | | | Low temperature resistance |
| | Hydrolysis resistance | | | | |
| | | | | | |
| Uses | Handle | | | | |
| | Wheels | | | | |
| | Conveyor belt repair | | | | |
| | Electrical/Electronic Applications | | | | |
| | Electrical appliances | | | | |
| | Washer | | | | |
| | Power/other tools | | | | |
| | Pipe fittings | | | | |
| | Household goods | | | | |
| | Sporting goods | | | | |
| | Coating application | | | | |
| | Footwear | | | | |
| | | | | | |
| Processing Method | Injection molding | | | | |
| Physical | Nominal Value | Unit | Test Method | | |
| Specific Gravity | 1.14 | g/cm³ | ASTM D792 | | |
| Hardness | Nominal Value | Unit | Test Method | | |
| Durometer Hardness | | | ASTM D2240 | | |
| Shaw A, 15 seconds | 90 | | ASTM D2240 | | |
| Shaw D, 3 seconds | 43 | | ASTM D2240 | | |
| Mechanical | Nominal Value | Unit | Test Method | | |
| Tensile Strength | | | ASTM D638 | | |
| | 40.0 | MPa | ASTM D638 | | |
| 100% strain | 9.00 | MPa | ASTM D638 | | |
| 300% strain | 23.0 | MPa | ASTM D638 | | |

| Tensile Elongation (Break) | 750 | % | ASTM D638 |
|-----------------------------|---------------|------|-------------|
| Flexural Modulus (23°C) | 80.0 | MPa | ASTM D790 |
| Abrasion Resistance | 50.0 | mm³ | DIN 53516 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tear Strength ¹ | 108 | kN/m | ASTM D624 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (-20°C) | No Break | | ASTM D256 |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 80 - 100 | °C | |
| Drying Time | 2.0 | hr | |
| Suggested Max Moisture | 0.070 | % | |
| Rear Temperature | 180 - 190 | °C | |
| Middle Temperature | 185 - 200 | °C | |
| Front Temperature | 190 - 215 | °C | |
| Nozzle Temperature | 200 - 230 | °C | |
| Mold Temperature | 30 - 60 | °C | |
| Injection Pressure | 50.0 - 100 | MPa | |
| Injection Rate | Slow-Moderate | | |
| NOTE | | | |
| 1. | With Notch | | |

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