

apigo® 9160 NL/80

Thermoplastic Polyolefin Elastomer

API SpA

Message:

apigo® 9160 NL/80 is a polyolefin thermoplastic elastomer (TPO (POE)) product. It can be processed by extrusion or injection molding and is available in Europe. apigo® 9160 NL/80 applications include consumer goods, electrical appliances, engineering/industrial accessories, home applications and construction applications.

Features include:

- chemical resistance
- high liquidity
- environmental protection/green
- Good processability
- Rapid Prototyping Cycle

| General Information | | | |
|---------------------|---------------------------------|-------------------|-------------|
| Features | Recyclable materials | | |
| | Workability, good | | |
| | Fast molding cycle | | |
| | Good flexibility | | |
| | High liquidity | | |
| | Low temperature resistance | | |
| | Good chemical resistance | | |
| | alkali resistance | | |
| | acid resistance | | |
| Uses | overmolding | | |
| | Electrical appliances | | |
| | Household goods | | |
| | Architectural application field | | |
| | Application in Automobile Field | | |
| | Sporting goods | | |
| | Toys | | |
| | Footwear | | |
| Appearance | Opacity | | |
| | Available colors | | |
| Forms | Particle | | |
| Processing Method | Extrusion | | |
| | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.10 | g/cm ³ | ASTM D792 |

| | | | |
|---|---------------|----------|-------------|
| Melt Mass-Flow Rate (MFR) (190°C/5.0 kg) | 80 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A, 15 sec) | 80 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| -- | 6.00 | MPa | ASTM D638 |
| 100% strain | 3.00 | MPa | ASTM D638 |
| 300% strain | 4.00 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 550 | % | ASTM D638 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tear Strength ¹ | 37.0 | kN/m | ASTM D624 |
| Injection | Nominal Value | Unit | |
| Rear Temperature | 150 - 170 | °C | |
| Middle Temperature | 160 - 180 | °C | |
| Front Temperature | 170 - 190 | °C | |
| Nozzle Temperature | 180 - 200 | °C | |
| Injection Rate | Slow-Moderate | | |
| Injection instructions | | | |
| Injection Pressure: HighBack Pressure: MediumLocking Pressure: High | | | |
| Extrusion | Nominal Value | Unit | |
| Cylinder Zone 1 Temp. | 150 - 180 | °C | |
| Cylinder Zone 2 Temp. | 160 - 190 | °C | |
| Cylinder Zone 3 Temp. | 170 - 190 | °C | |
| Cylinder Zone 4 Temp. | 180 - 190 | °C | |
| Extrusion instructions | | | |
| L/D Ratio: >20:1Compression Ratio: 1:2.5 to 1:3 | | | |
| NOTE | | | |
| 1. | Without Notch | | |

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