



PRODUCT INFORMATION

TAROPRENE 1A85 B1N

Thermoplastic Elastomer Vulcanized. This TPE-V compound combines the typical performance of a vulcanized elastomer with the easy processing of a thermoplastic compound. Taroprene is totally recyclable and it can be produced in standard grades and in tailor-made grades.

ISO short Form ISO 18064: TPV-(EPDM+PP)
Pellets

Key Features

- Excellent ozone resistance
- Good oil and grease resistance
- Good ageing resistance
- Excellent flex-fatigue properties
- Designed for blow moulding applications
- Designed for automotive applications
- Good adhesion to polyolefinic substrate

Availability

- All colours

Process

- BLOW MOULDING

Application

- Rack and pinion bellows
- Automotive air ducts
- Shock absorber
- Covering
- Tubing
- Automotive exterior
- Automotive

| Property | Method | Unit | Value | Condition | State |
|----------------------|------------|-------------------|-------|--------------|-------|
| PHYSICAL | | | | | |
| Density (+23°C) | ISO 1183 | g/cm ³ | 0,96 | | |
| Melt Flow Rate (MFR) | ISO 1133 | g/10 min | 3,0 | 190°C - 5 kg | |
| MECHANICAL | | | | | |
| Hardness SHORE A | ASTM D2240 | Shore A | 85 | 3 sec | |



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| | | | |
|------------------------------------|-------------|------|------|
| Tensile Break Strength | ASTM D412/C | MPa | 8,5 |
| Elongation at Break | ASTM D412/C | % | 650 |
| Tensile Modulus at 100% elongation | ASTM D412/C | MPa | 4,5 |
| Tensile Modulus at 300% Elongation | ASTM D412/C | MPa | 5,5 |
| Tear Strength | ASTM D624/C | N/mm | 45,0 |

THERMAL

| | | | |
|--------------------------------|-----------|----|-----|
| Brittle point | ASTM D746 | °C | -50 |
| Continuous service temperature | UL746 B | °C | 130 |

| BLOW MOULDING | Value |
|---|-----------------------|
| Drying Temperature (Circulating Air Oven) | 80 - 90°C |
| Drying Temperature (Desiccant Dryer) | 80°C |
| Drying Time (Circulating Air Oven) | 3 h |
| Drying Time (Desiccant Dryer) | 2 - 3 h |
| Suggested Max Moisture | 0,05 |
| Suggested Max Re grind | 10% |
| Melt Temperature | 205 - 210°C |
| Feed Temperature | 195°C |
| Rear Temperature | 200°C |
| Middle Temperature | 205°C |
| Front Temperature | 210°C |
| Die Temperature | 215°C |
| Blow Speed | Fast |
| Blow Pressure | 0,3 - 0,7 Mpa |
| Blow Ratio | 3,5 |
| Die Swell | 5 - 10 % |
| Screw Revolving Speed | 50 - 150 rpm |
| Screw L/D Ratio | 24:1 / 30:1 |
| Screw Compression Ratio | min 2,5:1 - max 3,0:1 |

Notes TAROPRENE is incompatible with POM and PVC. All TAROPRENE compounds must be stored indoors at a temperature below 40°C avoiding humidity and direct sunlight as well. We recommend that all TAROPRENE products are always dried prior to use at the specified drying conditions. Despite a longer shelf storage life without loss of properties, we recommend to use the material within 6 months from the production date.