

NEOPLAST 187 FT EB

Thermoplastic Vulcanizate

Zylog Plastalloys

Message:

Neoplast 187 FT EB is a hard, dynamically vulcanized thermoplastic vulcanizate (TPV), based on polyolefin chemistry, and is intended for Injection Moulding, Blow Moulding and Extrusion applications.

Key Features:
Excellent Ozone resistance, Good Flex fatigue, RoHS Compliant, UV Stabilised

| General Information | | | |
|---------------------|--------------------|--|--|
| Additive | UV Stabilizer | | |
| Features | Fatigue Resistant | | |
| | Good UV Resistance | | |
| | High Hardness | | |
| | Ozone Resistant | | |
| RoHS Compliance | RoHS Compliant | | |
| Processing Method | Blow Molding | | |
| | Extrusion | | |
| | Injection Molding | | |

| Physical | Nominal Value | Unit | Test Method |
|------------------|---------------|-------------------|-------------|
| Specific Gravity | 0.960 | g/cm ³ | ASTM D792 |

| Hardness | Nominal Value | Unit | Test Method |
|---|---------------|------|-------------|
| Durometer Hardness (Shore A, 5 sec, 23°C) | 92 | | ASTM D2240 |

| Elastomers | Nominal Value | Unit | Test Method |
|---|---------------|------|-------------|
| Tensile Stress ¹ (100% Strain) | 10.8 | MPa | ASTM D412 |
| Tensile Strength ² (Break) | 16.7 | MPa | ASTM D412 |
| Tensile Elongation ³ (Break) | 600 | % | ASTM D412 |
| Tear Strength ⁴ | 49.0 | kN/m | ASTM D624 |
| Compression Set (70°C, 22 hr) | 48 | % | ASTM D395B |

| Aging | Nominal Value | Unit | Test Method |
|--|---------------|------|-------------|
| Change in Tensile Strength in Air (150°C, 168 hr) | 10 | % | ASTM D573 |
| Change in Ultimate Elongation in Air (150°C, 168 hr) | -12 | % | ASTM D573 |
| Change in Durometer Hardness in Air (150°C, 168 hr) | 1.0 | | ASTM D573 |

| Thermal | Nominal Value | Unit | Test Method |
|----------------------------|---------------|------|-------------|
| Continuous Use Temperature | 135 | °C | SAE J2236 |
| Brittleness Temperature | -55.0 | °C | ASTM D746 |

| | | | |
|------|--|--|--|
| NOTE | | | |
|------|--|--|--|

| | |
|----|------------|
| 1. | 500 mm/min |
| 2. | 500 mm/min |
| 3. | 500 mm/min |
| 4. | 500 mm/min |

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