

## PIBIFLEX® 4560 - TPC

### Description

PIBIFLEX® 4560 is a nominal 40 Shore D thermoplastic polyester elastomer for injection molding applications and use as a performance modifier for TPE compounding.

### Physical properties

| ISO                   | Value | Unit                   | Test Standard |
|-----------------------|-------|------------------------|---------------|
| Density               | 1150  | kg/m <sup>3</sup>      | ISO 1183      |
| Melt volume rate, MVR | 55    | cm <sup>3</sup> /10min | ISO 1133      |
| MVR temperature       | 230   | °C                     | ISO 1133      |
| MVR load              | 2.16  | kg                     | ISO 1133      |

### Mechanical properties

| ISO                               | Value | Unit | Test Standard |
|-----------------------------------|-------|------|---------------|
| Tensile stress at break, 50mm/min | 26    | MPa  | ISO 527-2/1A  |
| Tensile strain at break, 50mm/min | >500  | %    | ISO 527-2/1A  |
| Flexural modulus, 23°C            | 109   | MPa  | ISO 178       |
| Shore D hardness, 15s             | 40    | -    | ISO 868       |

### Thermal properties

| ISO                           | Value | Unit | Test Standard  |
|-------------------------------|-------|------|----------------|
| Melting temperature, 10°C/min | 204   | °C   | ISO 11357-1/-3 |

### Typical injection moulding processing conditions

#### Pre Drying

|     | LowMaxRes | DryTime | DryTemp |
|-----|-----------|---------|---------|
| max | 0.05 %    | 4 h     | 110 °C  |
| min |           |         | 100 °C  |

