

## PIBIFLEX® E4482 - TPC

### Description

PIBIFLEX® E4482 is a nominal 44 Shore D thermoplastic polyester elastomer with high melting point that is used for extrusion molding applications and use as a performance modifier for TPE compounding.

### Physical properties

| ISO     | Value | Unit              | Test Standard |
|---------|-------|-------------------|---------------|
| Density | 1190  | kg/m <sup>3</sup> | ISO 1183      |

### Mechanical properties

| ISO                               | Value | Unit | Test Standard |
|-----------------------------------|-------|------|---------------|
| Tensile stress at break, 50mm/min | 31    | MPa  | ISO 527-2/1A  |
| Tensile strain at break, 50mm/min | >450  | %    | ISO 527-2/1A  |
| Flexural modulus, 23°C            | 143   | MPa  | ISO 178       |
| Shore D hardness, 15s             | 44    | -    | ISO 868       |

### Thermal properties

| ISO                           | Value | Unit | Test Standard  |
|-------------------------------|-------|------|----------------|
| Melting temperature, 10°C/min | 213   | °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  |