

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 ³	ISO 1183
Melt volume rate, MVR	55	cm ³ /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