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**PIBIFLEX® 2560 - TPC**


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**Description**


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PIBIFLEX® 2560 is a nominal 27 Shore D thermoplastic polyester elastomer with low modulus and improved flow for injection molding applications and use as a performance modifier for TPE compounding.

**Physical properties**


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ISO	Value	Unit	Test Standard
Density	<b>1090</b>	kg/m <sup>3</sup>	ISO 1183
Melt volume rate, MVR	<b>20</b>	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	<b>220</b>	°C	ISO 1133
MVR load	<b>2.16</b>	kg	ISO 1133
Molding shrinkage, parallel	<b>0.6</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>1.1</b>	%	ISO 294-4, 2577
Humidity absorption, 23°C/50%RH	<b>0.95</b>	%	ISO 62

**Mechanical properties**


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ISO	Value	Unit	Test Standard
Tensile stress at break, 50mm/min	<b>16</b>	MPa	ISO 527-2/1A
Tensile strain at break, 50mm/min	<b>&gt;500</b>	%	ISO 527-2/1A
Flexural modulus, 23°C	<b>35</b>	MPa	ISO 178
Charpy notched impact strength, 23°C	<b>NB</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	<b>NB</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact notched, 23°C	<b>NB</b>	kJ/m <sup>2</sup>	ISO 180/1A
Izod impact notched, -30°C	<b>NB</b>	kJ/m <sup>2</sup>	ISO 180/1A
Shore D hardness, 15s	<b>27</b>	-	ISO 868

**Thermal properties**

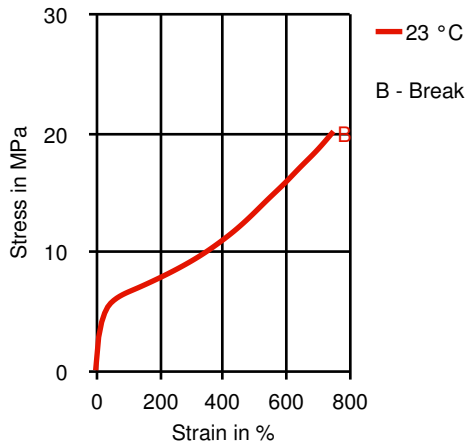

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ISO	Value	Unit	Test Standard
Melting temperature, 10°C/min	<b>185</b>	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	<b>-75</b>	°C	ISO 11357-1,-2,-3
Limiting oxygen index (LOI)	<b>20</b>	%	ISO 4589-1/-2

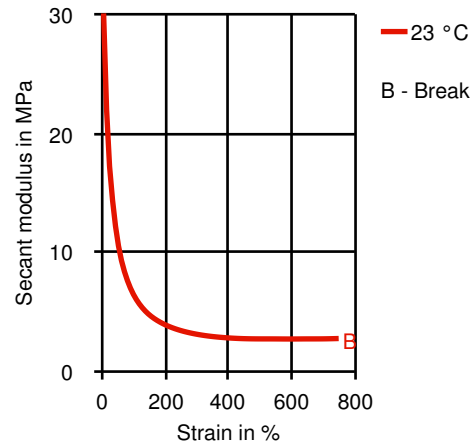
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**Diagrams**

**Stress-strain**



**Secant modulus-strain**



**Typical injection moulding processing conditions**

**Pre Drying**

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

**Temperature**

	HRTemp	CavTemp	MTemp	Nozzle Temp	Z4Temp	Z3Temp	Z2Temp	Z1Temp	FeedTemp	Hopper
max	190 °C	55 °C	190 °C	190 °C	190 °C	180 °C	180 °C	180 °C	170 °C	50 °C
min	170 °C	20 °C	170 °C	170 °C	170 °C	170 °C	170 °C	170 °C	155 °C	20 °C

**Speed**

	Value	Unit	Test Standard
Injection speed	medium-fast	-	-

**Other text information**

**Pre-drying**

To avoid hydrolytic degradation during processing, PIBIFLEX TPC resins have to be dried to a moisture level equal to or less than 0.02%. Drying should be done in a dehumidifying hopper dryer capable of dewpoints <-40°F (-40°C) at 225°F (107°C) for 4 hours.

**Longer pre-drying times/storage**

For subsequent storage of the material in the dryer until processed (<= 24h) it is necessary to lower the temperature to 80° C.

**Characteristics**

**Product Categories**

Unfilled

**Delivery Form**

Pellets