

PIBIFLEX® 8501LCR - TPC

Description

PIBIFLEX® 8501LCR is a thermoplastic polyester elastomer with a high flexural modulus.

Physical properties

ISO	Value	Unit	Test Standard
Density	1290	kg/m ³	ISO 1183

Mechanical properties

ISO	Value	Unit	Test Standard
Flexural modulus, 23 °C	1830	MPa	ISO 178
Charpy notched impact strength, 23 °C	NB	kJ/m ²	ISO 179/1eA
Izod impact notched, 23 °C	NB	kJ/m ²	ISO 180/1A

Thermal properties

ISO	Value	Unit	Test Standard
Melting temperature, 10 °C/min	200	°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

Other text information

Pre-drying

To avoid hydrolytic degradation during processing, Pibiflex resins have to be dried to a moisture level equal to or less than 0.05%. 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 (<= 60 h) it is necessary to lower the temperature to 100 °C.