

PIBIFLEX® 2094S - TPC

Description

PIBIFLEX® 2094S is a nominal 20 Shore D thermoplastic polyester elastomer with Low modulus and improved scratch resistance for injection molding applications and extrusion application with vanilla flavor.

Physical properties

ISO	Value	Unit	Test Standard
Density	1090	kg/m³	ISO 1183
Melt volume rate, MVR	9	cm³/10min	ISO 1133
MVR temperature	220	°C	ISO 1133
MVR load	2.16	kg	ISO 1133
Molding shrinkage, parallel	1.0	%	ISO 294-4, 2577
Molding shrinkage, normal	1.5	%	ISO 294-4, 2577

Mechanical properties

ISO	Value	Unit	Test Standard
Tensile nominal strain at break, 50mm/min	>500	%	ISO 527-2/1A
Tensile stress at break, 50mm/min	12	MPa	ISO 527-2/1A
Flexural modulus, 23°C	30	MPa	ISO 178
Charpy notched impact strength, 23°C	NB	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	NB	kJ/m²	ISO 179/1eA
Shore D hardness, 15s	22	-	ISO 868

Thermal properties

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

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	75 °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	-	-

Characteristics

Special Characteristics

High flow, Specialty appearance

Delivery Form

Pellets

Product Categories

Tribological

Additives

Lubricants

