

CAMPUS® foglio dati

Elastollan® C 59 D - (TPU-ARES)
BASF Polyurethanes GmbH



Testo del prodotto

DESCRIPTION

Elastollan C 59 D is a polyester based TPU

SPECIAL PROPERTIES

high tensile strength, excellent tear strength,
very good damping behavior, good rebound elasticity,
very good wear performance, good flexibility at low temperature
and resistance to hydrolysis

TYPICAL APPLICATIONS

technical parts, bushes, plugs

OTHER HINTS

predrying: 2-3h at 100-110°C
(air circulating oven or dehumidified air dryer),
max. content of humidity before processing: 0,02%
annealing: 20 h at 100°C in order to get optimum properties

CHEMICAL RESISTANCE

For detailed information on the chemical resistance of our
materials refer to this [list of chemical resistance](#)

Proprietà Meccaniche	Valore	Unità	Norma del test
Modulo a trazione	220	MPa	ISO 527-1/-2
Carico unitario al 50% di deformazione	15	MPa	ISO 527-1/-2
Carico Unitario al 100% di allungamento	17	MPa	ISO 527-1/-2
Carico Unitario al 300% di allungamento	30	MPa	ISO 527-1/-2
Carico Unitario a rottura TPE	50	MPa	ISO 527-1/-2
Deformazione a rottura	>50	%	ISO 527-1/-2
Allungamento a rottura TPE	>300	%	ISO 527-1/-2
Resist. urto Charpy con intaglio, +23°C	N	kJ/m ²	ISO 179/1eA
Resist. urto Charpy con intaglio, -30°C	20	kJ/m ²	ISO 179/1eA
Resistenza all'urto-trazione, +23°C	470	kJ/m ²	ISO 8256/1
Deformazione residua dopo compressione a 23°C, 24h	30	%	ISO 815
Deformazione residua dopo compressione a 70°C, 24h	50	%	ISO 815
Resistenza alla lacerazione, parallelo	160	kN/m	ISO 34-1
Resistenza all'abrasione	30	mm ³	ISO 4649
Durezza Shore D	55	-	ISO 48-4
Proprietà Termiche	Valore	Unità	Norma del test
Temperatura di transizione vetrosa, 10°C/min	-20	°C	ISO 11357-1/-2
Temp.di inflessione sotto carico, 1.80 MPa	47	°C	ISO 75-1/-2
Temp.di inflessione sotto carico, 0.45 MPa	86	°C	ISO 75-1/-2
Proprietà Elettriche	Valore	Unità	Norma del test
Fattore di dissipazione, 100Hz	380	E-4	IEC 62631-2-1
Fattore di dissipazione, 1MHz	610	E-4	IEC 62631-2-1
Resistività volumica	1E12	Ohm*m	IEC 62631-3-1
Resistività superficiale	>1E15	Ohm	IEC 62631-3-2
Rigidità dielettrica	28	kV/mm	IEC 60243-1

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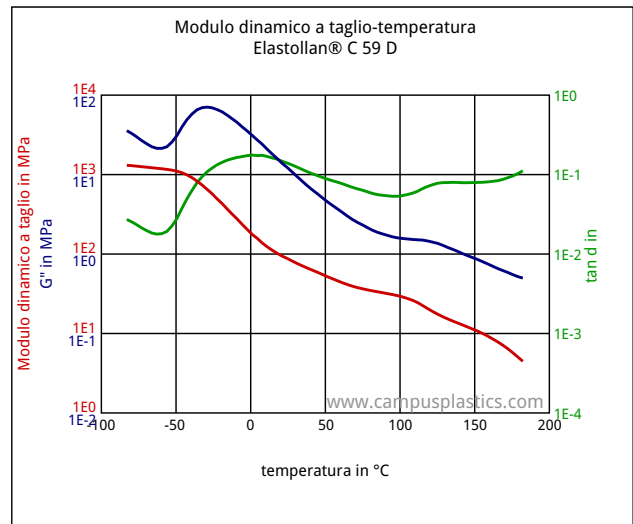
Res. Alle correnti striscianti superficiali

600 - IEC 60112

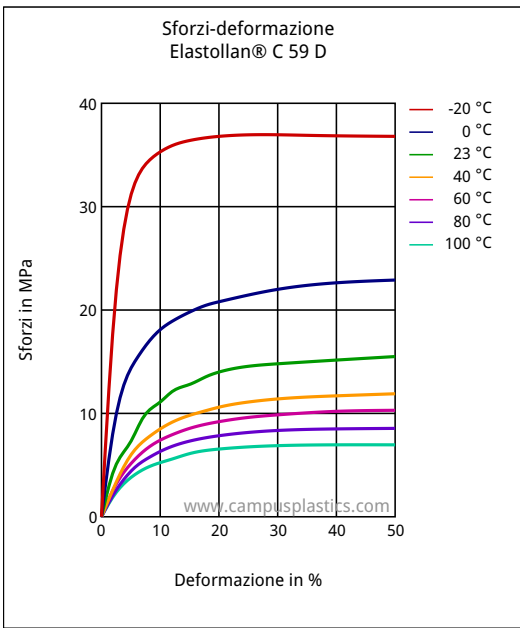
Altre Proprietà	Valore	Unità	Norma del test
Massa volumica	1230	kg/m³	ISO 1183
Preparazione Provette	Valore	Unità	Norma del test
Stamp. ad Iniezione, temp. di fusione	230	°C	ISO 294
Temperatura dello stampo	60	°C	ISO 294

Funzioni

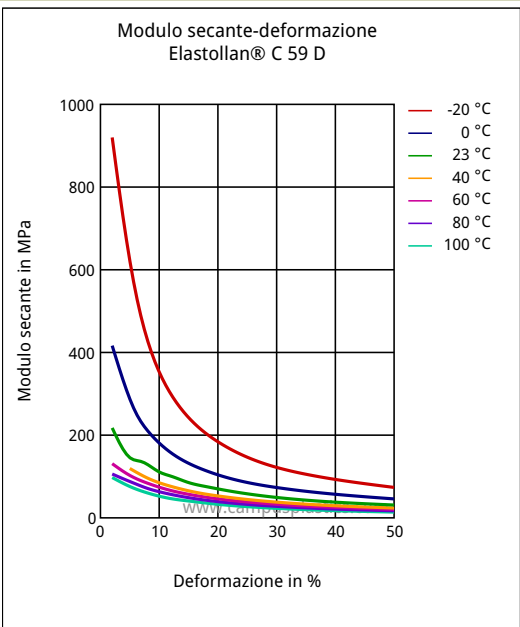
Modulo dinamico a taglio-temperatura



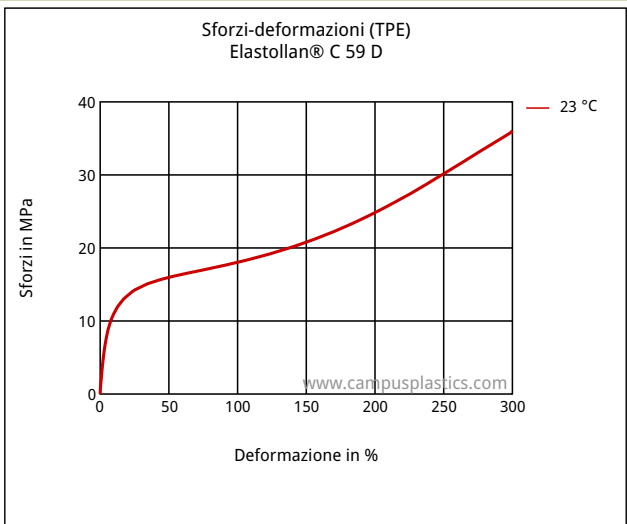
Sforzi-deformazione



Modulo secante-deformazione



Sforzi-deformazioni (TPE)



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Caratteristiche

Processabilità e Forma di Forni

Stampaggio ad Iniezione

Forma fisica disponibile

Pellet

Disponibilità geografica

Nord America, Europa, Asia Oceano Pacifico, South and Central America, Near East/Africa

Altre informazioni

Stampaggio ad Iniezione

Barrel temperature : 210 - 225 °C

Melt temperature : 225 °C

Mold temperature: 25 - 60 °C

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