

CAMPUS® hoja de datos

Elastollan® 1185 A FHF - TPU
BASF Polyurethanes GmbH



Texto del producto

DESCRIPTION

Elastollan 1185 A FHF is a halogen free, flame retarded polyether based TPU

SPECIAL PROPERTIES

excellent resistance to hydrolysis and good flexibility at low temperature, resistance to microbiological attack, good wear performance, high tensile strength, good damping behavior

TYPICAL APPLICATIONS

cable sheathing, plugs, profiles,

OTHER HINTS

predrying: 2-3h at 100-110 °C (air circulating oven) or 80-90 °C (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](#)

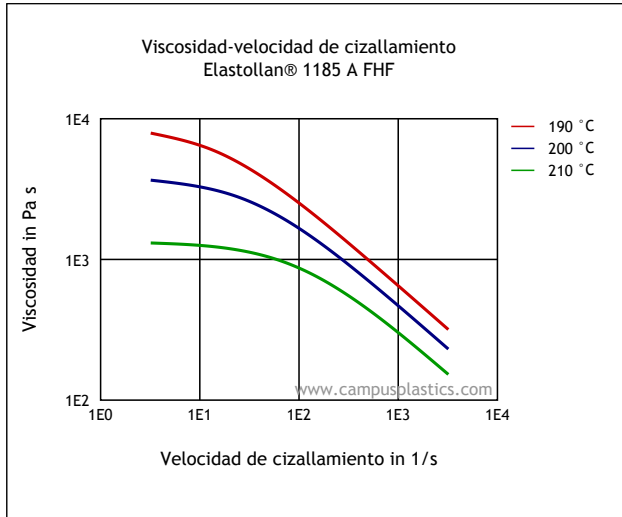
Propiedades mecánicas	Valor	Unidades	Método de ensayo
Esfuerzo a 50% de alarg.	6	MPa	ISO 527-1/-2
Tensión a 100% alargamiento	8	MPa	ISO 527-1/-2
Tensión a 300% alargamiento	13	MPa	ISO 527-1/-2
Resistencia a la tracción TPE	35	MPa	ISO 527-1/-2
Alargamiento a rotura	>50	%	ISO 527-1/-2
Alargamiento a rotura TPE	>300	%	ISO 527-1/-2
Res. impacto Charpy c/entalla, -30 °C	120	kJ/m ²	ISO 179/1eA
Valor de compr. bajo tensión const. a 23 °C, 24h	25	%	ISO 815
Valor de compr. bajo tensión const. a 70 °C, 24h	45	%	ISO 815
Resistencia al desgarro	60	kN/m	ISO 34-1
Resistencia a la abrasión	35	mm ³	ISO 4649
Dureza Shore A, 3s	89	-	ISO 7619-1
Dureza Shore D, 15s	37	-	ISO 7619-1
Propiedades térmicas	Valor	Unidades	Método de ensayo
Temp. de transición vítrea, 10 °C/min	-44	°C	ISO 11357-1/-2
Combustibilidad a 1.5mm esp. nom.	V-0	class	IEC 60695-11-10
Yellow Card disponible	Yes	-	-
Combustibilidad a espesor h	V-0	class	IEC 60695-11-10
Espesores de probeta	3.0	mm	IEC 60695-11-10
Yellow Card disponible	Yes	-	-
Combustibilidad según índice de oxígeno	24	%	ISO 4589-1/-2
Propiedades eléctricas	Valor	Unidades	Método de ensayo
Constante dieléctrica, 1MHz	6	-	IEC 60250
Factor de pérdidas dieléctricas, 1MHz	900	E-4	IEC 60250
Índice comparativo de línea de fuga	600	-	IEC 60112

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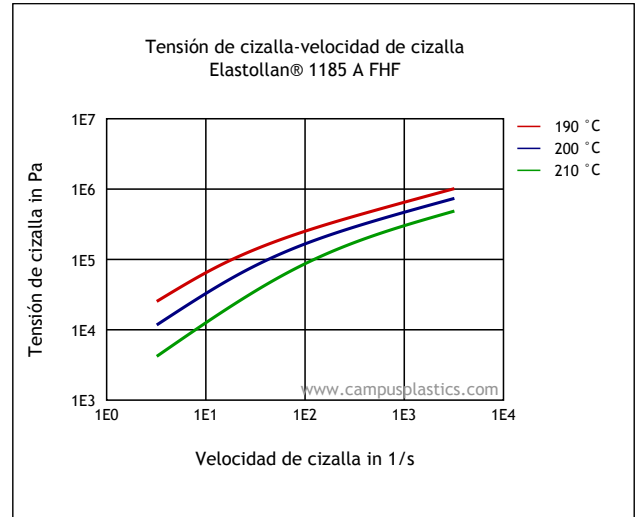
Otras propiedades	Valor	Unidades	Método de ensayo
Densidad	1230	kg/m ³	ISO 1183

Funciones

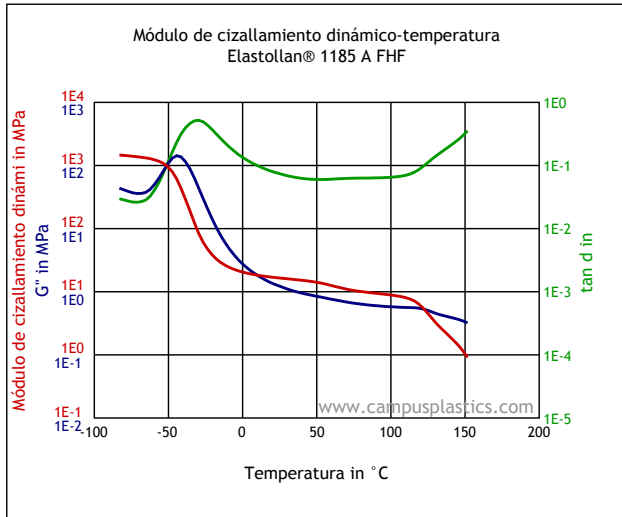
Viscosidad-velocidad de cizallamiento



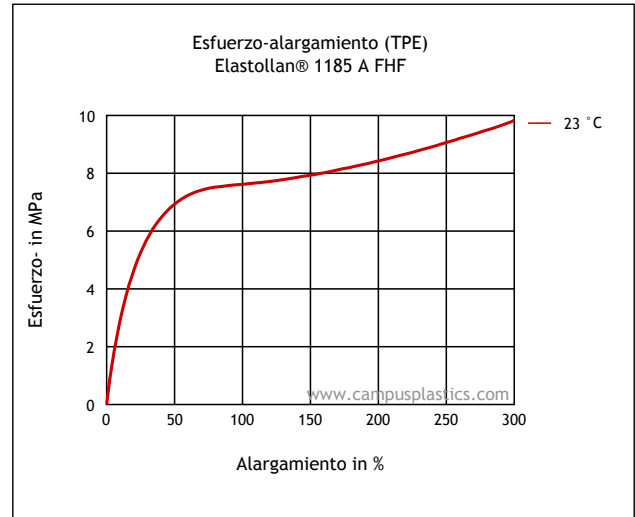
Tensión de cizalla-velocidad de cizalla



Módulo de cizallamiento dinámico-temperatura



Esfuerzo-alargamiento (TPE)



Características

Procesamiento y forma de entrega

Moldeo por inyección, Extrusión de perfiles

Forma de suministro

Sémola

Disponibilidad regional

Norteamérica, Europa, Asia Pacífico, América del Sur y Centroamérica, Próximo Oriente/Africa

Demás información

Moldeo por inyección

Barrel temperature : 195 - 210 °C

Melt temperature : 210 °C

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Mold temperature: 25 - 40 °C

Extrusión de perfiles

Barrel temperature : 170 - 200 °C

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For more information about our products contact your local BASF representative or

BASF Polyurethanes GmbH
European Business Management
Thermoplastische Polyurethane
Elastogranstraße 60
D-49448 Lemförde
Deutschland
Telefon ++49 5443 122500
Telefax ++49 5443 122555
e-mail: pu-elastomere@basf.com
www.CAMPUSplastics.com

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