

- Flexible and flame-retardant Polyester elastomer "P-47CFT"
- Polyester elastomer material for extrusion molding "P-90BD"
- Flame retardant polyester elastomer material "S-6002FR2"
- Excellent oil resistant polyester elastomer material "EN-2000"
- Super heat resistant aging polyester elastomer material "C-2003"
- Polyester elastomer material for moisture permeable film "P-35BS-20"

PELPRENE™ Flexible and flame-retardant Polyester elastomer “P-47CFT”

Features

- Flame retardant (equivalent V-0/0.8mm) Not UL94 Registered
- Flexibility(Shore hardness 36D)
- Abrasion resistance
- Resistance to flexural fatigue
- High flow

Applications

- Connector skirt
- Electric wire coating material and cable coating material
- Packing
- Industrial parts
- Electrical/Electronic parts, etc.

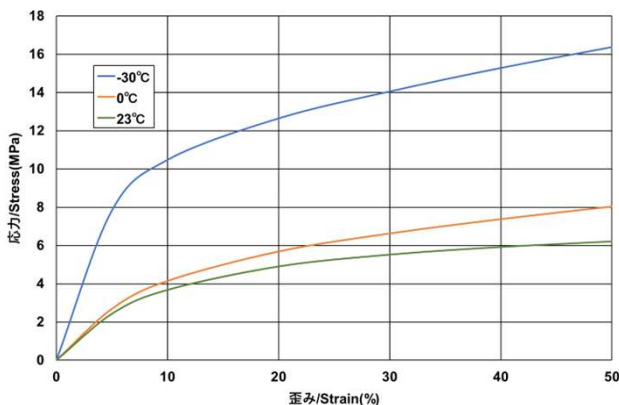


Spec · Quality

	Unit	P-47CFT
Features		Flexibility, Flame retardant
ISO Material Indication		TPC-ET-FR(17)
Density(g/cm ³)	g/cm ³	1.39
Durometer D hardness(Shore D)		36
Tensile Strength	MPa	9.3
Elongation at brake	%	240
Tensile stress at yield	MPa	7.6
Charpy notched impact strength	-30℃ 0℃ 23℃ kJ/m ²	N.B. N.B. N.B.
Crystal melting point	℃	183
MFR(230℃/2.16kg)	g/10min	40

*1: Depending on the color, the physical properties may change

Temperature dependence of low elongation S-S curve



Test Piece : Dumbbell (10mm wide, 2mm thickness)
Tensile speed : 50mm/min

*Values and properties listed here are typical values, not guaranteed values.

PELPRENE™ Polyester elastomer material for extrusion molding “P-90BD”

Features

- Heat aging resistance
- Flexibility(Shore hardness 50D)
- Resistance to flexural fatigue
- Superior oil resistance and chemical resistance
- Extrusion possible



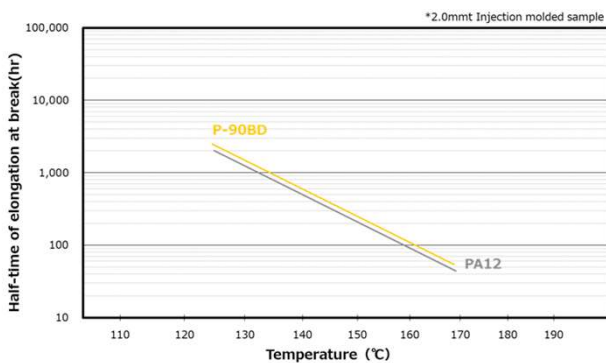
Applications

- Oil resistant hoses
- Pressure-resistant hoses
- Mandrels
- Construction material
- Electric wire coating material and cable coating material, etc.

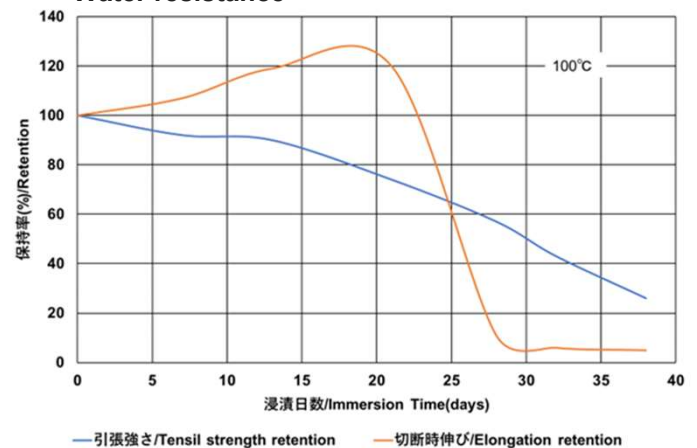
Spec · Quality

	Unit	P-90BD
Features		Extrusion Molding, Heat aging resistance, Oil resistance
ISO Material Indication		TPC-ET
Density	g/cm ³	1.19
Durometer D hardness(Shore D)		50
Tensile Strength	MPa	39.6
Elongation at brake	%	610
Tensile stress at yield	MPa	15.1
Charpy notched impact strength	kJ/m ²	N.B.
Crystal melting point	°C	200
MFR(230°C/2.16g)	g/10min	2.6

Heat aging resistance



Water resistance



*Values and properties listed here are typical values, not guaranteed values.

PELPRENE™ Flame retardant polyester elastomer material “S-6002FR2”

Features

- Flame retardant (equivalent V-2/1.6mmt) Not UL94 Registered
- Electric wire coating material
- Flexibility(Shore hardness 70D)
- Superior abrasion resistance
- Resistance to flexural fatigue
- Extrusion possible

Applications

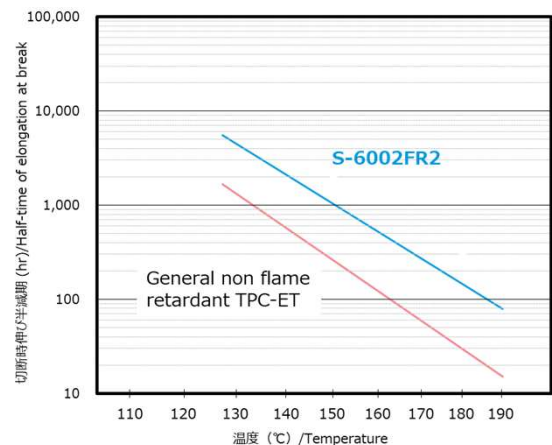
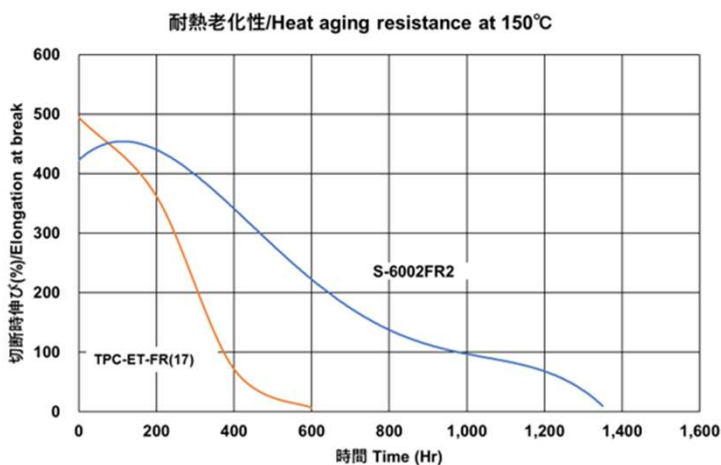
- Electric wire coating material
- heater insulation material
- Rubber seal
- Industrial parts
- Electrical/Electronic parts, etc.



Spec · Quality

	S-6002FR2
Features	Flame retardant, Heat aging resistance, Abrasion resistance
ISO Material Indication	TPC-ES-FR(17)
Density(g/cm ³)	1.39
Durometer D hardness(Shore D)	70
Tensile Strength(MPa)	29.3
Elongation at brake(%)	410
Tensile stress at yield (MPa)	36.9
Charpy notched impact strength(kJ/m ²)	10
Crystal melting point(°C)	219

Heat aging resistance



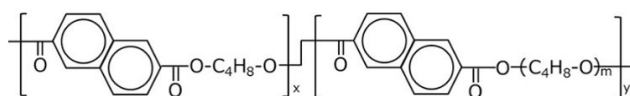
*Values and properties listed here are typical values, not guaranteed values.

PELPRENE™ Excellent oil resistant polyester elastomer material "EN-2000"

Features

- Excellent oil and chemical resistance
- Water resistance
- Flexibility(Shore hardness 51D)
- Good dimensional stabilities
- Superior abrasion resistance
- Easy to injection molding

Type-EN



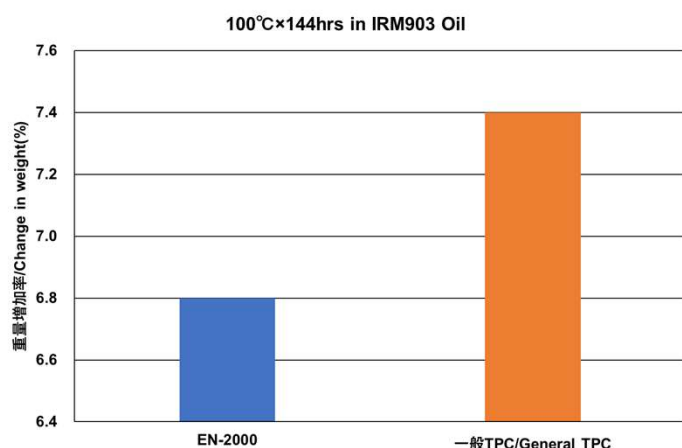
Applications

- Rubber seal
- Oil resistant hoses
- Mandrels
- Soft emblems
- Bearing parts, etc.

Spec · Quality

	EN-2000	General-purpose TPC
Features	Oil and chemical resistance, Abrasion resistance	Standard
ISO Material Indication	TPC-ET	TPC-ET
Density(g/cm ³)	1.20	1.19
Durometer D hardness(Shore D)	51	48
Tensile Strength(MPa)	33.7	35.4
Elongation at brake(%)	670	750
Tensile stress at yield (MPa)	15.4	14.2
Charpy notched impact strength(kJ/m ²)	N.B.	N.B.
Crystal melting point(°C)	221	201

Oil resistance



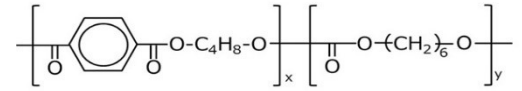
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PELPRENE™ Super heat resistant aging polyester elastomer material "C-2003"

Features

- World class heat aging resistance among thermoplastic elastomers
- Superior abrasion resistance
- Flexible : Shore 60D
- No plasticizers used, making the product non-contaminating
- Superior oil and chemical resistance
- Injection molding and extrusion molding possible

Type-C



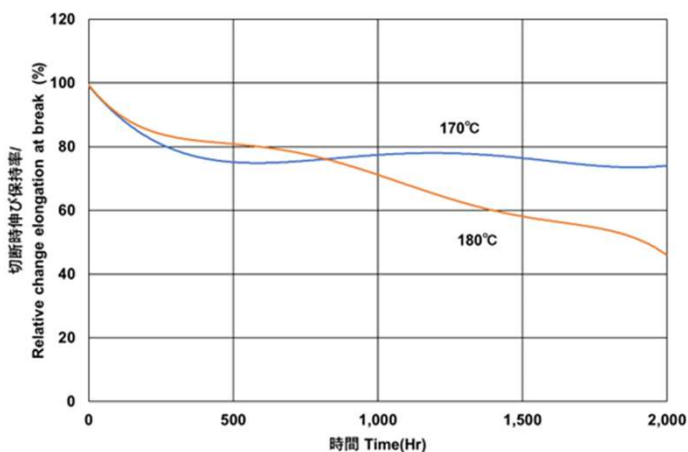
Applications

- Electric wire coating material
- Fiber-optic cable coating
- Industrial parts
- Corrugated tubing
- Oil-resistant hoses
- Fluoroelastomer substitute, etc.

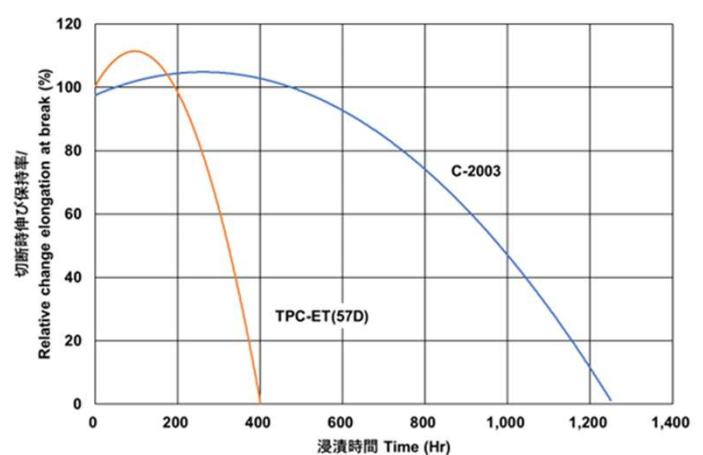
Spec · Quality

	PELPRENE™ C-2003	General-purpose TPC
Features	Super heat aging resistance, Water resistance	Standard
ISO Material Indication	>TPC-ES<	>TPC-ET<
Durometer D hardness(Shore D)	60	57
Density(g/cm ³)	1.25	1.23
Tensile Strength(MPa)	37	38
Elongation at brake(%)	550	500
Crystal melting point(°C)	206	203

Heat aging resistance



Water resistance(100°C)



*Values and properties listed here are typical values, not guaranteed values.

PELPRENE™ Polyester elastomer material for moisture permeable film "P-35BS-20"

Features

- Non-porous and superior moisture permeability
- Flexibility (surface hardness 96A)
- Extrusion possible
- Easy coloring
- Adhesion to polyester fabrics
- Free of perfluorinated compounds and polyfluorinated compounds (PFCs)



Applications

- Sports Clothing
- Outdoor Clothing
- Rainwear
- Underwear
- Shoes, etc.

Spec · Quality

TYPE	Appearance	Thickness μm	Water Vapor Transmission		Water Bearing Pressure High water pressure method	Melting Point °C	Brittle Temperature °C	Tensile Strength		Elongation at Break	
			A-1 method	B-1 method				MPa MD/TD	% MD/TD		
TYPE CS-20-5-9	White	18	5,500	32,000	20,000	195	<-65	36	26	717	740
		15	6,000	50,000	20,000	195	<-65	34	27	740	797
		10	7,000	80,000		195	<-65	33	27	694	805

Quote: OG Film Co., Ltd. Breathable waterproof film "BREEZ/TEX"



If you would like a moisture-permeable waterproof film, please contact OG Film Co., Ltd.

Address: 1-24 Hirayama, Yamakita-cho, Ashigarakami-gun, Kanagawa 258-0014
 Tell : 0465-75-2320
 Home page : <https://ogfilm.co.jp>

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