

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

## Features

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

## Applications

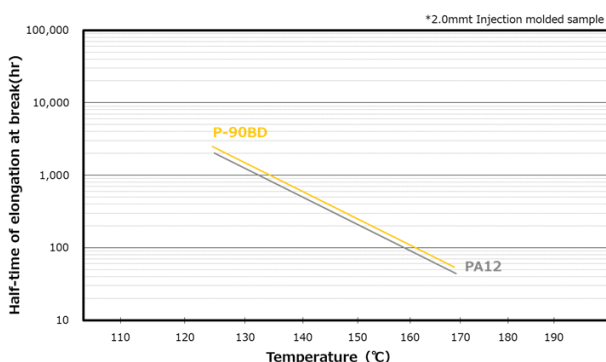
- Oil resistant hoses
- Pressure-resistant hoses
- Mandrels
- Construction material
- Electric wire coating material and cable coating material, etc.



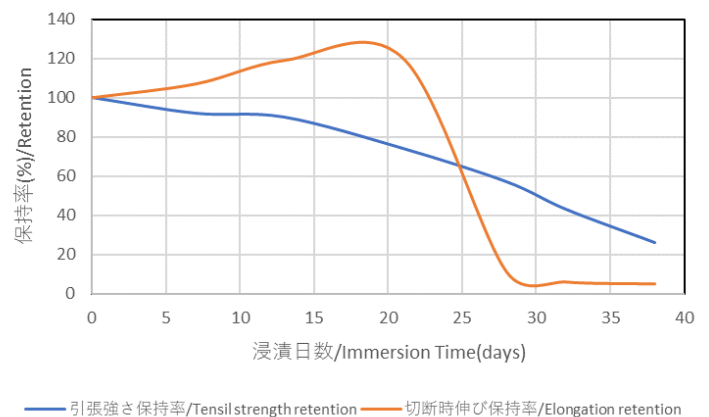
## Spec · Quality

|  | Unit              | P-90BD  |
|--|-------------------|---|
| Features   |                   | Extrusion Molding/Heat aging resistance /Oil resistance |
| ISO Material Indication                            |                   | TPC-ET  |
| Density(g/cm <sup>3</sup> )                        | g/cm <sup>3</sup> | 1.19  |
| Durometer D hardness(Shore D)                      |                   | 50  |
| Tensile Strength(MPa)                              | MPa               | 39.6  |
| Elongation at brake(%)                             | %                 | 610   |
| Tensile stress at yield (MPa)                      | MPa               | 15.1  |
| Charpy notched impact strength(kJ/m <sup>2</sup> ) | kJ/m <sup>2</sup> | N.B.  |
| Crystal melting point(°C)                          | °C                | 200   |
| MFR(230°C/2.16kg)                                  | 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 (V-2/1.6mm/IEC60695-11-10)
- Electric wire coating material
- Flexibility(Shore hardness 70D)
- Superior abrasion resistance
- Resistance to flexural fatigue
- Extrusion possible



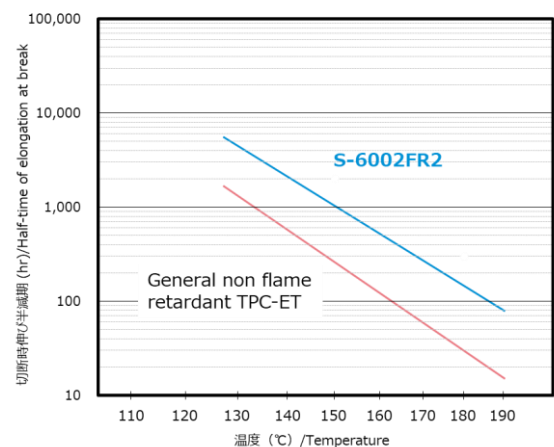
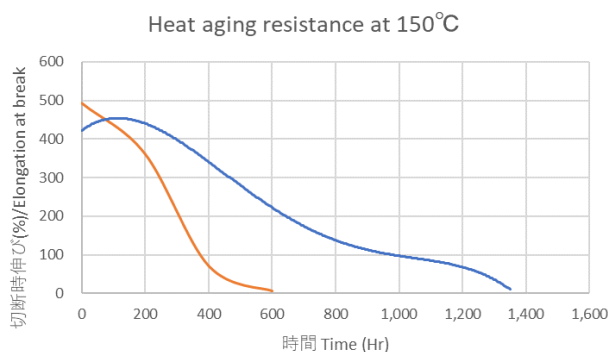
## Applications

- 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 <sup>3</sup> )                        | 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 <sup>2</sup> ) | 10  |
| Crystal melting point(°C)                          | 219   |

## Heat aging resistance



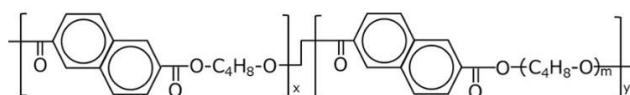
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# PELPRENE™ Excellent oil resistant polyester elastomer material "EN-2000"

## Features

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

## Type-EN



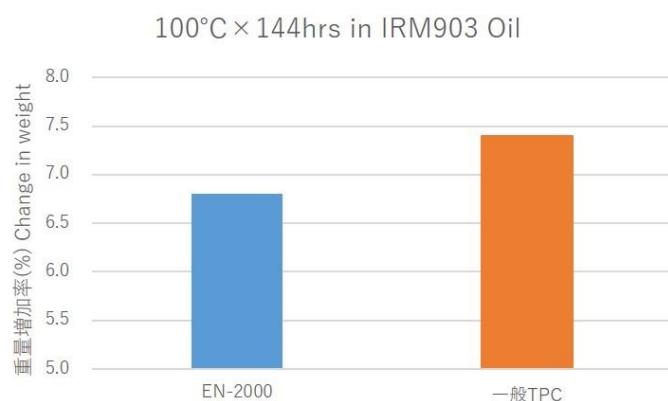
## Applications

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

## Spec · Quality

|  | EN-2000   | General-purpose TPC |
|--|---|---------------------|
| Features   | Oil and chemical resistance/<br>Abrasion resistance | Standard            |
| ISO Material Indication                            | TPC-ET  | TPC-ET              |
| Density(g/cm <sup>3</sup> )                        | 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 <sup>2</sup> ) | N.B.  | N.B.                |
| Crystal melting point(°C)                          | 221   | 201                 |

## Oil resistance



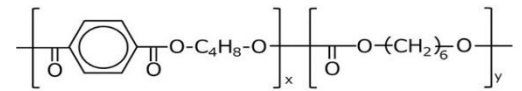
\*Values and properties listed here are typical values, not guaranteed values.

# 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



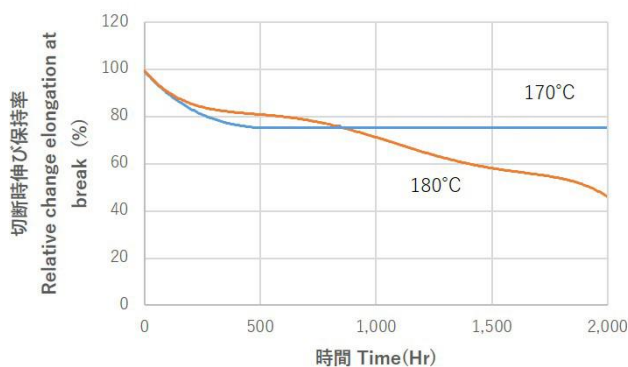
## Applications

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

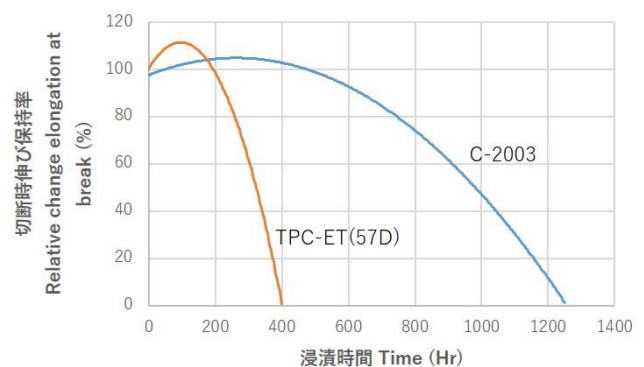
## Spec · Quality

|                               | 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 <sup>3</sup> )   | 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



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# 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<br>μm | Water Vapor Transmission |            | Water Bearing Pressure<br>High water pressure method | Melting Point<br>°C | Brittle Temperature<br>°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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