

**Product Texts**

Common features of Hytrel® thermoplastic polyester elastomer include mechanical and physical properties such as exceptional toughness and resilience, high resistance to creep, impact and flex fatigue, flexibility at low temperatures and good retention of properties at elevated temperatures. In addition, it resists many industrial chemicals, oils and solvents. Special grades include heat stabilised, flame retardant, food contact compliant, blow molding and extrusion grades. Concentrates offered include black pigments, UV protection additives, heat stabilisers, and flame retardants.

Hytrel® thermoplastic polyester elastomer is plasticiser free.

The good melt stability of Hytrel® thermoplastic polyester elastomer normally enables the recycling of properly handled production waste. If recycling is not possible, we recommend, as the preferred option, incineration with energy recovery (-24 kJ/g of base polymer) in appropriately equipped installations.

For disposal, local regulations have to be observed.

Hytrel® thermoplastic polyester elastomer typically is used in demanding applications in the automotive, fluid power, electrical/electronic, consumer goods, appliance and power tool, sporting goods, furniture, industrial and off-road transportation/equipment industry.

**Hytrel® 41CB is a black master batch which can provide improved UV resistance when blended with other Hytrel® grades.**

| Thermal properties                           | Value | Unit | Test Standard  |
|--|-------|------|----------------|
| <b>ISO Data</b>                              |       |      |                |
| <sup>[C]</sup> Melting temperature, 10°C/min | 151   | °C   | ISO 11357-1/-3 |

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion, Coating, Casting

**Features**

Blending Resin

**Delivery form**

Pellets, Black

**Regional Availability**

Europe

**Special Characteristics**

Light stabilized or stable to light, U.V. stabilized or stable to weather

**Other text information**

**Injection molding**

Hytrel® 41 CB may be pellet blended with all types of Hytrel® and then dried prior to melt blending in a reciprocating screw injection moulding machine.

**PROCESSING**

Generally, processing conditions used with the standard types of Hytrel® will be satisfactory for blends containing Hytrel® 41CB. To ensure good mixing during injection moulding, higher than normal back pressures should be employed.

For very thin parts more thorough mixing may be required. This can be done by extrusion blending and pelletizing prior to injection moulding.

**Profile extrusion**

**PREPROCESSING**

Drying recommended = Yes

Drying temperature = 80°C

Drying time, dehumidified dryer = 2-3 h

Processing moisture content = <0.08 %

Hytrel® 41 CB may be pellet blended with all types of Hytrel® and then dried prior to melt blending in a reciprocating screw extruder.

**PROCESSING**

Generally, processing conditions used with the standard types of Hytrel® will be satisfactory for blends containing Hytrel® 41CB.

For very thin parts more thorough mixing may be required. This can be done by extrusion blending and pelletizing prior to extrusion.