

**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® 7246HS NC010 is a high modulus, heat stabilized grade with nominal hardness of 72D.**

Typical applications:

Tubing, wire and cable jackets, gears and sprockets, oil field parts.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	1.6	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	1.6	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	480	MPa	ISO 527
<sup>[C]</sup> Charpy notched impact strength, +23°C	35	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Stress at 10% elongation	23	MPa	ISO 527
<sup>[C]</sup> Stress at break TPE	50	MPa	ISO 527
<sup>[C]</sup> Strain at break TPE	>300	%	ISO 527
<sup>[C]</sup> Shore D hardness	64	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	216	°C	ISO 11357-1/-3
<sup>[C]</sup> Glass transition temperature, 10°C/min	25	°C	ISO 11357-1/-2

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Density	1250	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics**

**Processing**

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

**Special Characteristics**

Light stabilized or stable to light, Heat stabilized or stable to heat

**Delivery form**

Pellets, Natural Color

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America