

**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® HTR4275 BK600 is designed for blow molding or processing techniques requiring high melt viscosity. It has nominal hardness of 55D, is pigmented black and formulated for superior UV resistance.**

Typical applications:

Hollow thin wall parts requiring a tough polymer with excellent flexibility and temperature properties such as automotive boots.

**Processing/Physical Characteristics**

	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	1.7	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	2.1	%	ISO 294-4, 2577

[C]: CAMPUS

**Mechanical properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	165	MPa	ISO 527
<sup>[C]</sup> Stress at 10% elongation	11	MPa	ISO 527
<sup>[C]</sup> Stress at break TPE	36	MPa	ISO 527
<sup>[C]</sup> Strain at break TPE	>300	%	ISO 527
<sup>[C]</sup> Shore D hardness	50	-	ISO 7619-1

[C]: CAMPUS

**Thermal properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	191	°C	ISO 11357-1/-3
<sup>[C]</sup> Glass transition temperature, 10°C/min	-30	°C	ISO 11357-1/-2

[C]: CAMPUS

**Other properties**

	Value	Unit	Test Standard
<sup>[C]</sup> Density	1170	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding, Profile Extrusion, Blow Molding, Thermoforming

**Special Characteristics**

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

**Delivery form**

Pellets, Black

**Regional Availability**

Asia Pacific

**Other text information**

**Blow molding**

**Molding shrinkage**

Normal, 1.0mm Blow Molded = 2.2-2.7 %

Parallel 1.0mm Blow Molded = 1.5-2.0 %