Hytrel® HTR8808 BK316

TPC | Celanese

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® HTR8808 BK316 is a high viscosity thermoplastic polyester elastomer designed for blow molding. It has very good mechanical properties at elevated temperatures and excellent resistance to most automotive fluids.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**2.4**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**2.2**	%	ISO 294-4, 2577
[C] Density of melt	**980**	kg/m³	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**270**	MPa	ISO 527
[C] Charpy notched impact strength, +23°C	**102**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**12**	kJ/m²	ISO 179/1eA
[C] Stress at 10% elongation	**15**	MPa	ISO 527
[C] Stress at break TPE	**33**	MPa	ISO 527
[C] Strain at break TPE	**260**	%	ISO 527
[C] Shore D hardness	**54**	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**215**	°C	ISO 11357-1/-3
[C] Glass transition temperature, 10°C/min	**15**	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	**45**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**65**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**60**	°C	ISO 306
[C] Coeff. of linear therm. expansion, parallel	**210**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**200**	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1160**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing	Special Characteristics
Blow Molding	Light stabilized or stable to light, Heat stabilized or stable to heat

Delivery form
Pellets, Black

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