Hytrel® HTR8936 BK320

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® HTR8936 BK320 is a high viscosity thermoplastic polyester elastomer designed for blow moulding with superior acidity resistance and heat aging.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**1.9**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.8**	%	ISO 294-4, 2577
[C] Density of melt	**1000**	kg/m³	-
[C] Thermal conductivity of melt	**0.23**	W/(m K)	-
[C] Spec. heat capacity of melt	**2300**	J/(kg K)	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**173**	MPa	ISO 527
[C] Stress at break TPE	**30**	MPa	ISO 527
[C] Strain at break TPE	**>300**	%	ISO 527
[C] Shore D hardness	**50**	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**205**	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**44**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**64**	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**216**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**199**	E-6/K	ISO 11359-1/-2
[C] Burning rate, FMVSS, Thickness 1 mm	**38**	mm/min	ISO 3795 (FMVSS 302)

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.75**	%	Sim. to ISO 62
[C] Humidity absorption	**0.25**	%	Sim. to ISO 62
[C] Density	**1180**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Profile Extrusion, Blow Molding, Thermoforming

Delivery form
Pellets, Black

Special Characteristics
Heat stabilized or stable to heat

Chemical Resistance
Acid Resistance

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