

Product Texts

Hytrek® HTR8797 BK320 is a 55 Shore D High Viscosity Polyester Elastomer with Excellent Heat Ageing Protection Developed for Blow Molding

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	9	cm ³ /10min	ISO 1133
Temperature	240	°C	-
Load	10	kg	-
^[C] Molding shrinkage, parallel	2.1	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	2.1	%	ISO 294-4, 2577
^[C] Density of melt	1010	kg/m ³	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	180	MPa	ISO 527
^[C] Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, -30°C	42	kJ/m ²	ISO 179/1eA
^[C] Stress at 10% elongation	12	MPa	ISO 527
^[C] Stress at 100% elongation	22	MPa	ISO 527
^[C] Stress at break TPE	35	MPa	ISO 527
^[C] Strain at break TPE	>300	%	ISO 527
^[C] Shore D hardness	51	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	214	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	-40	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	62	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	197	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	189	E-6/K	ISO 11359-1/-2
^[C] Burning rate, FMVSS, Thickness 1 mm	43	mm/min	ISO 3795 (FMVSS 302)

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1190	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding, Profile Extrusion, Other Extrusion, Blow Molding

Delivery form

Pellets, Black

Special Characteristics

Heat stabilized or stable to heat

Regional Availability

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

Other text information**Injection molding****PREPROCESSING**

Drying recommended = Yes

Drying temperature = 110°C

Drying time, dehumidified dryer = 2-4 h

Processing moisture content = <0.08 %

PROCESSING

Melt temperature optimum = 245°C

Mold temperature optimum = 45°C

Mold temperature range = 40-50°C