



DuPont Performance Polymers Hytrel® HTR8303 Thermoplastic Copolyester Elastomer (TPC-ET) (Unverified Data**)

Categories: [Polymer](#); [Thermoplastic](#); [Elastomer, TPE](#); [Polyester, TP](#); [Polyester Thermoplastic Elastomer](#)

Material Notes: Hytrel® HTR8303 is a thermoplastic polyester elastomer with excellent high temperature properties and hydrolytic stability designed for extrusion coating applications. This polymer has a durometer hardness of 65D and a flexural modulus of 750MPa.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Water Absorption	0.40 %	0.40 %	Immersion 24h; ISO 62
Melt Flow	0.50 g/10 min @Load 2.16 kg, Temperature 270 °C	0.50 g/10 min @Load 4.76 lb, Temperature 518 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	15s; ISO 868
	65	65	Maximum; ISO 868
Tensile Strength at Break	26.0 MPa	3770 psi	ISO 527
Tensile Strength, Ultimate	22.0 MPa @Temperature 23.0 °C	3190 psi @Temperature 73.4 °F	IEC 811-1
Tensile Stress at Strain	22.0 MPa @Strain 50.0 %	3190 psi @Strain 50.0 %	ISO 527
Elongation at Break	190 %	190 %	ISO 527
	290 %	290 %	IEC 811-1
Tensile Modulus	0.680 GPa	98.6 ksi	ISO 527
Flexural Modulus 	0.125 GPa @Temperature 100 °C	18.1 ksi @Temperature 212 °F	ISO 178
	0.750 GPa @Temperature 23.0 °C	109 ksi @Temperature 73.4 °F	ISO 178
	1.20 GPa @Temperature -40.0 °C	174 ksi @Temperature -40.0 °F	ISO 178
Charpy Impact, Notched 	1.40 J/cm ² @Temperature -30.0 °C	6.66 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	10.0 J/cm ² @Temperature 23.0 °C	47.6 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.2 @Frequency 50.0 Hz, Temperature 23.0 °C	3.2 @Frequency 50.0 Hz, Temperature 73.4 °F	0.75mm; ASTM D 150
Dissipation Factor	0.010 @Thickness 0.750 mm, Frequency 50.0 Hz	0.010 @Thickness 0.0295 in, Frequency 50.0 Hz	ASTM D150

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	89.0 °C	192 °F	ASTM D 648
Oxygen Index	16 - 18 %	16 - 18 %	ASTM D 2863

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 270 °C	500 - 518 °F	

Descriptive Properties		
Color		Natural
Forms		Pellets
Generic	Thermoplastic Copolyester Elastomer (TPC-ET)	
Processing Method		Blow Molding Extrusion Injection Molding
Product Category		Extrusion Resins
Region Available		Americas

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