

**Product Texts**

**Hytrel® HTR8241 is a 65 Shore D High Performance Polyester Elastomer Developed for Extrusion**

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	5	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-
<sup>[C]</sup> Molding shrinkage, parallel	1.7	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	1.6	%	ISO 294-4, 2577
<sup>[C]</sup> Density of melt	1070	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	0.15	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	2070	J/(kg K)	-
<sup>[C]</sup> Eff. thermal diffusivity	5.44E-8	m <sup>2</sup> /s	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	360	MPa	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	14	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Stress at 10% elongation	18	MPa	ISO 527
<sup>[C]</sup> Stress at break TPE	45	MPa	ISO 527
<sup>[C]</sup> Strain at break TPE	>300	%	ISO 527
<sup>[C]</sup> Shore D hardness	60	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	211	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	85	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	200	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	200	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Dissipation factor, 100Hz	110	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	110	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	7E10	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	2E14	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	18	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	0.7	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	0.2	%	Sim. to ISO 62
<sup>[C]</sup> Density	1240	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics**

**Processing**

Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion, Coating, Casting

**Delivery form**

Pellets

**Special Characteristics**

Light stabilized or stable to light

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa