

DuPont™ Hytrel®

thermoplastic polyester elastomer

Hytrel® HTR8068

Hytrel® HTR8068 is a medium modulus flame retardant and antidrip Hytrel® resin that meets the requirement of UL94V-0. It has nominal durometer hardness of 44D.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		TPC-ET-FR(17)
Part Marking Code	ISO 11469		>TPC-ET-FR(17)<
Mechanical			
Tensile Stress	ISO 527	MPa (kpsi)	
@ 10% Strain			5.9 (0.9)
Stress at Break	ISO 527	MPa (kpsi)	14 (2)
Strain at Break	ISO 527	%	400
Flexural Modulus	ISO 178	MPa (kpsi)	
-40°C (-40°F)			650 (94)
23°C (73°F)			145 (21)
100°C (212°F)			50 (7)
Hardness, Shore D	ISO 868		
Maximum			44
Brittleness Temperature	ISO 974	°C (°F)	-48 (-54)
Tear Strength	ISO 34-1 method B/a	kN/m (lb/in)	
Normal			64 (366)
Parallel			68 (389)
Thermal			
Deflection Temperature	ISO 75f	°C (°F)	
0.45MPa			48 (118)
1.80MPa			45 (113)
Melting Temperature	ISO 11357-1/-3	°C (°F)	
10°C/min			170 (338)

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.
 Test specimen for ISO 527 is 1BA (2mm) at 50mm/min; all other ISO & ASTM mechanical properties measured at 4mm; ISO electrical properties measured at 2mm.
 All mechanical & electrical properties measured on injection molded specimens.
 Test temperatures are 23°C unless otherwise stated.

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Property	Test Method	Units	Value
Thermal			
CLTE, Normal 23 - 55°C (73 - 130°F)	ISO 11359-1/-2	E-4/C (E-4/F)	1.73 (0.96)
CLTE, Parallel 23 - 55°C (73 - 130°F)	ISO 11359-1/-2	E-4/C (E-4/F)	1.51 (0.84)
Vicat Softening Temperature 10N, 50°C/h	ISO 306	°C (°F)	109 (228)
Rheological			
Melt Mass-Flow Rate 190°C, 2.16kg	ISO 1133	g/10 min	4.7
Electrical			
CTI 3.0mm	UL 746A	V	425
Flammability			
Flammability Classification 1.5mm	IEC 60695-11-10		V-0
Flammability Classification 1.5mm	UL94		V-0
Oxygen Index	ISO 4589-1/-2	%	26
High Amperage Arc Ignition Resistance 1.5mm	UL 746A	arcs	>200
Hot Wire Ignition 1.5mm	UL 746A	s	26
Temperature Index			
RTI, Electrical 1.5mm	UL 746B	°C	50
RTI, Impact 1.5mm	UL 746B	°C	50
RTI, Strength 1.5mm	UL 746B	°C	50

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Property	Test Method	Units	Value
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1420 (1.42)
Water Absorption Immersion 24h	ISO 62	%	1.9
Processing - Injection Molding			
Melt Temperature Optimum		°C (°F)	200 (392)
Mold Temperature Range		°C (°F)	30-40 (85-104)
Mold Temperature Optimum		°C (°F)	40 (105)
Drying Time, Dehumidified Dryer		h	2-3
Drying Temperature		°C (°F)	80 (200)
Processing Moisture Content		%	<0.08
Processing - Extrusion			
Melt Temperature Optimum		°C (°F)	195 (383)
Drying Time, Dehumidified Dryer		h	2-3
Drying Temperature		°C (°F)	80 (200)
Processing Moisture Content		%	<0.08

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