



Hytrel®

polyester elastomer

Hytrel® 3078

Hytrel® 3078 is a low modulus, 28 MPa, Hytrel® grade, with nominal durometer hardness of 30D. It contains non-discoloring antioxidants. It can be processed by many conventional thermoplastic processing techniques like injection molding and extrusion.

Property	Test Method	Units	Value
Mechanical			
Tensile Strength at Break	ASTM D 638	MPa (kpsi)	26.2 (3.8)
Elongation at Break	ASTM D 638	%	700
Poisson's Ratio	ASTM E 132		0.45
Flexural Modulus	ASTM D 790 IB	MPa (kpsi)	28 (4.0)
Izod Impact 6.35mm (0.25in)	ASTM D 256 A	J/m (ft lb/in)	NB
Thermal			
Heat Deflection Temperature 0.45MPa (66psi)	ASTM D 648	°C (°F)	46 (115)
Melting Point	ASTM D 3418	°C (°F)	170 (338)
Vicat Softening Point	ASTM D 1525 B	°C (°F)	83 (181)
Melt Flow Rate 2.16kg at 190C	ASTM D 1238	g/10 min	5.0
Flammability			
UL94 Rating at Min. Thickness	UL94		HB
UL94 Min. Thickness Tested	UL94	mm (in)	1.57 (0.062)
Other			
Hardness, Durometer D	ASTM D 2240		30
Ross (pierced), 5X Cut Growth	ASTM D 1052	cycles	>1 E6
Initial Tear Resist., Die C	ASTM D 1004	kN/m (lb/in)	77 (440)
Taber Abrasion	ASTM D 1044	mg	
CS-17 Wheel, 1kg, 1000 cycles			2
H-18 Wheel, 1kg, 1000 cycles			90
Water Absorption	ASTM D 570	%	
Immersion 24hr			3.0
Specific Gravity	ASTM D 792		1.07
Processing			
Melt Temperature Range		°C (°F)	190-210 (375-410)
Mold Temperature Range		°C (°F)	<45 (<113)
Processing Moisture Content		%	<0.1

Mechanical properties measured at 23°C (73°F)

Contact DuPont for MSDS, general guides and/or additional information about ventilation, handling, purging, drying, etc.

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CAUTION: Do not use in medical applications involving permanent implantation in the human body.

For other medical applications, see "DuPont Medical Caution Statement", H-50102.