Hytrel®

polyester elastomer

Hytrel® 7246

Hytrel® 7246 is a high modulus, 570 MPa, Hytrel® grade, with nominal durometer hardness of 72D. 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)	45.8 (6.7)
Elongation at Break	ASTM D 638	%	360
Poisson's Ratio	ASTM E 132		0.45
Flexural Modulus	ASTM D 790 IB	MPa (kpsi)	570 (83)
Notched Izod Impact	ASTM D 256 A	J/m (ft lb/in)	
6.35mm (0.25in)			210 (3.9)
Thermal			
Heat Deflection Temperature	ASTM D 648	°C (°F)	
0.45MPa (66psi)			130 (266)
1.8MPa (264psi)			52 (126)
Melting Point	ASTM D 3418	°C (°F)	218 (424)
Vicat Softening Point	ASTM D 1525 B	°C (°F)	207 (405)
Melt Flow Rate	ASTM D 1238	g/10 min	
2.16kg at 240C			12.5
Electrical			
Volume Resistivity	ASTM D 257	ohm cm	
3x5x0.075in			1800 E9
Dielectric Strength, Short Time	ASTM D 149	kV/mm (V/mil)	
3x5x0.075in			18.1 (450)
Dielectric Constant	ASTM D 150		
1E2 Hz, 3x5x0.075in			4
1E3 Hz, 3x5x0.075in			3.9
1E6 Hz, 3x5x0.075in			3.5
Dissipation Factor	ASTM D 150		
1E2 Hz, 3x5x0.075in			0.016
1E3 Hz, 3x5x0.075in			0.019
1E6 Hz, 3x5x0.075in			0.03

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.

Hytrel® 7246

Property	Test Method	Units	Value
Flammability			
UL94 Rating at Min. Thickness	UL94		HB
UL94 Min. Thickness Tested	UL94	mm (in)	1.47 (0.058)
Other			
Hardness, Durometer D	ASTM D 2240		72
Ross (pierced), 5X Cut Growth	ASTM D 1052	cycles	0.03 E6
Initial Tear Resist., Die C	ASTM D 1004	kN/m (lb/in)	200 (1150)
Taber Abrasion	ASTM D 1044	mg	
CS-17 Wheel, 1kg, 1000 cycles			13
H-18 Wheel, 1kg, 1000 cycles			47
Water Absorption	ASTM D 570	%	
Immersion 24hr			0.3
Specific Gravity	ASTM D 792		1.25
Mold Shrinkage	ASTM D 955	%	
Flow, 3.2mm (0.125in)			1.6
Processing			
Melt Temperature Range		°C (°F)	240-260 (464-500)
Mold Temperature Range		°C (°F)	<45 (<113)
Processing Moisture Content		%	<0.1

Mechanical properties measured at 23°C (73°F) unless otherwise stated.
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