

PES 3100

Property	ASTM Test Method	Typical Values ⁽¹⁾			
		U.S. Customary Units		SI Units	
		Value	Units	Value	Units
General					
Specific Gravity	D 792	1.37		1.37	
Water Absorption, 24 hours	D 570	0.56	%	0.56	%
Melt Flow Rate (380°C, 2.16 kg)	D 1238	11-15	g/10 min.	11-15	g/10 min.
Mechanical					
Tensile Strength	D 638	12.9	kpsi	90	MPa
Tensile Modulus	D 638	358	kpsi	2.5	GPa
Tensile Elongation at Break	D 638	25-75	%	25-75	%
Flexural Strength	D 790	16.5	kpsi	115	MPa
Flexural Modulus	D 790	358	kpsi	2.5	GPa
Impact Strength- Notched Izod	D 256	1.0	ft-lb/in	55	J/m
Thermal					
DTUL at 264 psi (1.82 MPa) ⁽²⁾	D 648	383	°F	200	°C
Glass Transition Temp.	D 3482	433	°F	223	°C
Continuous Use Temperature ⁽³⁾	UL-746B	356	°F	180	°C
Coefficient of Linear Thermal Expansion	D 696	32	10 ⁻⁶ /°F	57	10 ⁻⁶ /°C
Electrical					
Dielectric Strength	D 149	405	V/mil	16	kV/mm
Dielectric Constant @ 60 Hz	D 150	3.2		3.2	
Dissipation Factor @ 60 Hz	D 150	0.004		0.004	
Volume Resistivity	D 257	>10 ¹⁶	ohm-cm	>10 ¹⁶	ohm-cm
Surface Resistivity	D 257	>10 ¹⁴	ohm/sq	>10 ¹⁴	ohm/sq
Comparative Tracking Index	D 3638	150	V	150	V
Arc Resistance	D 495	50	sec	50	sec
Flammability					
Limiting Oxygen Index	D 2863	40	%	40	%

⁽¹⁾ These properties has been determined from injection molded test specimen under ideal processing parameters and conditioned at 23+/- 2°C and 50%RH .

⁽²⁾ Measured from annealed specimen

⁽²⁾ Expected

Approvals

NSF 51, 61 Certified

USP Class VI approved

EPA TSCA Registered

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