



ESD PA6

Polyamide

Properties



Properties	Standard	Test Method	Unit	Test Data
Physical Properties				
Specific Gravity	ISO 1183	/	lb/in ³	0.0408 - 0.0415
Water Absorption	ISO 62	73.4°F /sat	%	/
Maximum Service Temperature	/	/	°F	347
Minimum Allowable Temperature	/	/	°F	/
Mechanical Properties				
Tensile Strength at Break	ISO 527	Yield 1.97 in/min	KJ/in ²	0.0314
Strain at Break	ISO 527	Break 1.97 in/min	%	5
Tensile Modulus	ISO 527	/	KPSI	/
Flexural Strength	ISO 178	0.079 in/min	KPSI	15.95
Flexural Modulus	ISO 178	0.079 in/min	KPSI	569.2
Izod Notched Impact Strength	ISO 179	73.4°F	ft·lb/in	2.00
Rockwell Hardness	ISO 868	73.4°F	M	82±2
Shore Hardness	ISO 868	73.4°F	Shore D	/
Combination Properties				
Coefficient of Thermal Expansion	ASTM D696	10-5-1/K	°F	/
Temperature of Deflection under Load	ASTM D648	264 psi	°F	383
Glass Transition Temperature	ISO 3146	/	°F	/
Melting Point	ISO 3147	/	°F	/
Dielectric Constant	IEC 60250	/	60Hz	/
Dielectric Dissipation Factor	IEC 60250	/	60Hz	/
Dielectric Strength	IEC 60243-1	0.063 in	KV/in	/
Sheet Resistivity	IEC 600093	ACL-800	Ω	10 ⁶ -10 ⁸
Volume Resistivity	IEC 600093	ACL-800	Ω·in	10 ⁵ -10 ⁷
Flammability	UL94	/	/	HB