



POLYMER INDUSTRIES

PET

TYPICAL PROPERTIES

Property	Test Method	Units	PET
Mechanical			
Specific Gravity	ASTM-D792	---	1.34
Tensile Strength	ASTM-D638	psi	12,200
Tensile Elongation	ASTM-D638	%	25
Tensile Modulus	ASTM-D638	psi	470,000
Flexural Strength	ASTM-D790	psi	17,500
Flexural Modulus	ASTM-D790	psi	490,000
Izod Notched Impact	ASTM-D256	ft.- lb./in.	0.6
Rockwell Hardness	ASTM-D785	R scale	R125
Thermal			
Coef. Of Linear Thermal Expansion	ASTM-D696	in./in./°F	3.6×10^{-5}
Max Continuous Temp.	Internal Std.	°F	230
Heat Defl. Temp. @ 264 psi	ASTM-D648	°F	190
Melting Point	ASTM-D3418	°F	491
Electrical			
Dielectric Strength-Short Term	ASTM-D149	volts/mil	450
Dielectric Constant @ 60 Hz	ASTM-D150	---	3.4
Dissipation Factor @ 60 Hz	ASTM-D150	---	0.002
Volume Resistivity	ASTM-D257	ohm-cm	$>10^{14}$
Miscellaneous			
Water Absorption/24 hours	ASTM-D570	% weight	0.01
Water Absorption @ Saturation	ASTM-D570	% weight	0.9
Flammability	UL-94	---	HB
Agency Compliance			
FDA	---	---	Yes
USDA	---	---	Yes
3-A Dairy Standards	---	---	Yes

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