

Introduction & Features

Excellent impact strength, transparency, printability, heat resistance, and formability.

Applications: Electronics panel, Interior materials (washing machine, TV, refrigerator, etc), Dial plate, Packaging for toy (molding), Electric control product (partition), Name plate, Front panel for electronic parts, Mobile phone, Keypad, Window, Insulating film, Non-flammable film, Sun cap, Goggle etc.

Typical property values

Properties		Test method	Unit	Value	Unit	Value	
Physical Properties	Specific Gravity	ASTM D792	-	1.20	-	1.20	
	Water Absorption, 23 ^o C, 24hr	ASTM D570	%	0.12	%	0.12	
Optical Properties	Transmittance	ASTM D1003	%	86	%	86	
	Haze	ASTM D1003	%	1.0	%	1.0	
Mechanical Properties	Tensile Strength	ASTM D638	psi	9500	Mpa	65.5	
	Tensile Modules	ASTM D638	psi	340000	Mpa	2344.2	
	Refractive Elasticity @5% pressure	ASTM D790	psi	14000	Mpa	96.5	
	Bending Strength	ASTM D790	psi	332000	Mpa	2289.0	
	Elongation	ASTM D638	%	100	%	100	
	Rockwell Hardness	ASTM D785	R Scale	115	R Scale	115	
Thermal Properties	Load – deformation Temperature	(@ 1.820 Mpa)	ASTM D648	°F	°C	270	132
		(@ 0.455 Mpa)				280	137
	Heat Conductivity	ASTM D696	in/in/ ^o F	3.75x10-5	cm/cm/ ^o C	6x10e-5	
	Sensitive Temperature	ASTM D746	°F	-200	°C	-128	
Ignition	Dielectric Constant @10Hz	ASTM D150	-	2.36	-	2.36	
	Dielectric Constant @60Hz	ASTM D150	-	3.17	-	3.17	
	Volume Resistivity	ASTM D257	Ohm-cm	8.20E+16	Ohm-cm	8.20E+16	
	Stainless Steel Strip Electrodes	ASTM D495	sec	10	sec	10	
	Tungsten Electrode	ASTM D495	sec	120	sec	120	

*The above information is typical values only, not for warranty purpose.

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