CHANGZHOU RUNYI NEW MATERIALI MPORT&EXPORT CO.,LTD

APET Plastic Sheet -Technical Data Sheet

Property	Test Method	Units	
Physical Properties			
Specific gravity	ISO 1183	g/cm^3	1.35
Water absorption	ISO 62	%	0.15
Mechanical Properties			
Tensile strength	ISO 527	MPa	53.5
Elongation at break	ISO 527	%	>100
Tensile modulus	ISO 527	MPa	2600
Impact strength unnotched	ISO 180	KJ/m^2	no burst
Impact strength notched	ISO 180	KJ/m^2	3.9
Rockwell hardness	DIN 2039	M/R	M80/R114
Thermal Properties			
Coefficient of linear expansion	ASTM D696	mm/mC°	+0.060
Specific Heat	DSC	J/gC°	1.13
Heat deflection temp. (0.45 MPa)	ISO 75	°C	70
Heat deflection temp. (1.82 MPa)	ISO 75	°C	67
Vicat softening point (1 kg)	ISO 306	°C	78
Vicat softening point (5 kg)	ISO 306	°C	73
Optical Properties			
Light transmission	ASTM D1003	%	82-89*
Haze	ASTM D1003	%	1.9
Gloss (60° angle)	ASTM D1003	units	148
Electrical Properties			
Surface resistivity	ASTM D257	Ω	$1*10^{15}$
Dielectric constant (at 1 MHz)	ASTM D150	-	~3.1
Dissipation factor (tg δ, 1 MHz)	ASTM D150	-	~0.056
Dielectric strength (500V/sec)	ASTM D149	kV/mm	18
Glow wire test	IEC 695/2.1	°C	650
Barrier Properties			
Permeability for water vapour	ASTM F372	$g/mm/m^2/24h$	1.5
Gas permeability for CO_2	ASTM D1434	$g/mm/m^2/24h$	28
Gas permeability for O_2	ASTM D3985	$g/mm/m^2/24h$	5

No. 8, Shijiatang, Yaodong Village Committee, Luoxi Town, Xinbei District, Changzhou City, Jiangsu Province

Tel: +86-519-88176187 Email: sale01@one-plastic.com