

Panlite L-1225Y

Category	Unit	Test Method	Condition	L-1225Y
Melt volume flow rate	cm ³ /10min	ISO 1133	300deg.C load 1.2kg	11
Density	kg/m ³	ISO 1183	-	1200
Water absorption rate	%	ISO 62	in water 23deg.C 24h	0.2
Light transmission	%	ASTM D 1003	thickness 3mm	88
Refractive index	-	ASTM D 542	-	1.585
Tensile modulus	MPa	ISO 527-1 and ISO 527-2	1mm/min	2400
Tensile stress at yield	MPa		50mm/min	62
Tensile strain at yield	%		50mm/min	6
Nominal tensile strain at break	%		50mm/min	>50
Flexural modulus	MPa	ISO 178	2mm/min	2350
Flexural strength	MPa		2mm/min	92
Charpy impact strength	kJ/m ²	ISO 179	unnotched	NB
			notched	71
Heat deflection temperature	deg.C	ISO 75-1 and ISO 75-2	1.80MPa	128
			0.45MPa	141
Vicat softening temperature	deg.C	ISO 306	50deg.C/h 50N	148
Mold shrinkage	%	In-house method	parallel	0.5-0.7
			vertical	0.5-0.7
Coefficient of linear expansion	×10 ⁻⁴ /k	ISO 11359-2	parallel	0.7
			vertical	0.7
Specific inductive capacity	-	IEC 60250	100Hz	3.1
	-		1MHz	3
Dielectric loss tangent	×10 ⁻⁴	IEC 60250	100Hz	10
	×10 ⁻⁴		1MHz	90
Volume resistivity	ohm-m	IEC 60093	-	>1×10 ¹³
Surface resistivity	ohm	IEC 60093	-	>1×10 ¹⁵
Withstand voltage	MV/m	IEC 60243-1	short time test	30
Tracking resistance	-	IEC 60112	-	250
Flammability	-	UL 94	-	V-2(0.40mm) HB(1.9mm)
Temperature index	deg.C	UL 746B	electric 1.5mmt	125
			impact 1.5mmt	115
			non-impact 1.5mmt	125

* The values listed are specification values, not certified values.