

Polyester

Property	Test Method	Conditions	Units	Value	
Physical				APET	PETG
Relative Density	ISO 1183		g/cm ³	1.33	1.27
Water Absorption	ISO 62		%	0.15	0.15
Mechanical					
Tensile Strength at yield	ISO 527		MPa	53.5	51.5
Tensile Strength at break					
Elongation at yield					
Elongation at break	ISO 527		MPa	53.5	>100
Tensile Modulus of Elasticity	ISO 527			>100	+2200
Flexural Modulus			MPa	2300	2100
Flexural Strength at yield					
Izod Impact Strength	ISO 180	notched unnotched	kJ/m ²	3.9 no burst	9.0 no burst
Charpy Impact Strength					
Impact Falling Weight					
Rockwell Hardness	DIN 2039		R Scale	114	115
Thermal					
Service Temperature			°C	-20 to 60	-40 to 60
Heat Distortion Temperature	ISO 75	Load: 1.82MPa	°C	67	68
Vicat Softening Temperature	ISO 306	Load: 1kg	°C	78	82
Coefficient of Thermal Expansion			mm/m°C	0.06	0.06
Thermal Conductivity					
Specific Heat Capacity	DSC		J/gC°	1.13	1.13
Optical					
Light Transmission	ASTM D-1003	3mm sheet	%	89	90
Refractive Index				N/A	N/A
Yellowness Index				N/A	N/A
Haze	ASTM D-1003		%	1.9	>1
Electrical					
Dielectric Strength	ASTM D-149	500V/s	kV/mm	18	16
Surface Resistivity	ASTM D-257		Ωxcm	1*E15	1*E15

Other physical properties and values available on request.

Flammability:

VERALITE® 100 (APET)	
Standard	Classification
BS 476 Part 7	Class 1Y
UL 94	V2/HB
DIN 4102-1	B1
DIN 5510-2	S4/SR2/ST2
CSE RF-2-75A/ RF3-77	Class 1
NF F 16-101 & 102	M2, F1

VERALITE® 200 (PETG)	
Standard	Classification
BS 476/7	Class 1Y
UL 94	HB
DIN 4102-1	B1
DIN 5510-2	S4/SR2/ST2
CSE RF-2-75A/ RF3-77	Class 1
NF F 16-101 & 102	M2, F1