

SHINKONG SYNTHETIC FIBERS CORP.

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SHINITE®
PBT



D201NA
DHK006
Natural

Product Description

Mechanical Properties

	Unit	Test Method	Value
Charpy Impact - Notched +23°C	KJ/m2	ISO 179/1eA	5.4
Tensile Stress at Break	MPa	ISO 527-1/-2	54
Nominal Strain at Break	%	ISO 527-1/-2	90
Tensile Modulus	MPa	ISO 527-1/-2	2400
Flexural Strength	MPa	ISO 178	80
Flexural Modulus	MPa	ISO 178	2100
Hardness(Shore D) 15sec	-	ISO 7619	-

Thermal Properties

Thermal Properties		Unit	Test Method	Value
Heat Deflection Temperature	0.45 MPa	°C	ISO 75-1,-2	-
	1.8 MPa	°C		-
Melting Point		°C	DSC	223
Glow-wire Ignition Temperature				
	1mm	°C	IEC 60695-2-13	-
	2mm	°C	IEC 60695-2-13	-
	3mm	°C	IEC 60695-2-13	-
Glow-wire Flammability Index				
	1mm	°C	IEC 60695-2-12	-
	2mm	°C	IEC 60695-2-12	-
	3mm	°C	IEC 60695-2-12	-

Flammability

	Unit	Test Method	Value
Flammability	-	UL94	HB

Rheological Properties

Rheological Properties		Unit	Test Method	Value
MVR	250°C/2.16Kg	cm ³ /10min	ISO 1133	29

Electrical Properties

	Unit	Test Method	Value
Dielectric Strength	KV/MM	IEC 60243-1	-
Dielectric Constant	Hz	IEC 60250	-
Volume Resistivity	Ω-CM	IEC 60093	-
Comparative Tracking Index	V	IEC 60112	-

Physical Properties

	Unit	Test Method	Value
Density	g/cm ³	ISO 1183	1.307
Moisture	%	ISO 62	0.09
Mold Shrinkage		ISO 294-4	
	Parallel	%	0.90 ~ 1.50
	Normal	%	1.10 ~ 1.70

Injection Molding

Pre-drying		2 HR ×140 (°C)
		4 HR ×120 (°C)
		6 HR ×100 (°C)
Processing Moisture Content		≤ 0.04%
Barrel Temperature	REAR	240-230 (°C)
	MIDDLE	245-235 (°C)
	FRONT	250-240 (°C)
	NOZZLE	260-250 (°C)
Mold Temperature		50-70 (°C)
Injection Pressure		600-1000 (kg/cm2)

Above property values are presented gratis and for guidance only, under varying conditions prescribed by certain standards and test methods. Therefore these statements are not the minimum values of the material specifications.

This grade is comply with RoHS & SVHC regulation.

Feel free to inquire the testing report on www.shinkong.com.tw or mail to service@shinkong.com.tw