

Physical property test report

TFST REPORT

Report number: NGM20250321004

Date of report: 2025/3/21

Submitting Unit:

NOEGEM

Material Name:

NGM—SG12B—PPSGF30% BLACK

Address:

Receiving Date: 2025/3/21

Contact Phone:

Delivery Date: 2025/3/21

Injection Molding Condition Processes	Drying Temperature	Drying time	Injection Molding Temperature	Injection Pressure
Remarks				

Test Items	Test equipment	Execution Standards	Test Conditions			Unit	Results
Fire Resistance	Combustion Test Chamber	UL94	127*12.8*1.6mm 127*12.8*3.2mm				
Melt Index	Melt flow index tester	ISO1133	Temperature (° C)/ Weight (kg)			g/10min	
Melting Point	Melting point temperature tester						
Thermal deformation temperature	Thermal deformation temperature tester	ISO75	Stress (MPa)/ Deformation (0.341)			°C	
Vicat Softening Point	Vicat Softening Point Tester	ISO306				°C	
Specific gravity density	Gravity Meter	ISO1183				g/cm3	1.517
Fiber Content/Ash Content	High temperature glass fiber combustion furnace					%	
Rockwell Hardness	Rockwell Hardness Tester	ISO2039-2				HRH	117
Bending strength	Universal Tensile Testing Machine	ISO178	Standard Test Strip			MPa	82.4
Bending modulus	Universal Tensile Testing Machine	ISO178	Standard Test Strip			MPa	5005.4
Tensile Stress	Universal Tensile Testing Machine	ISO527-2	110.5	109.9	110.3	MPa	59.4
Elongation at Break	Universal Tensile Testing Machine	ISO527-2	1.8	2.3	1.9	%	1.5
National standard impact strength	Cantilever Beam Impact Testing machine	ISO180/1A	8mm*4mm 23°C			kJ/m² (Average)	13.4
Us standard impact strength	Cantilever Beam Impact Testing machine	American standard ASTM D256	10.16mm*3.2mm 23°C/J/m			kJ/m² (Average)	

(1) GB abbreviation for national standard (2) ASTM stands for American Standard (3) ISO stands for International Standard

Description of the test report: All test data in this test report are detected by the laboratory instrumentation to obtain the real data, due to differences in the brand of the instrument and product processing Due to differences in instrument brands and product processing adjustments, the data is only for reference and comparison

Inspector: Xiong Hongtao
Data testing: Noegem Laboratories