

# Arnite<sup>®</sup> TV4 491

(PBT+PET)—GF50

50% Glass Fiber Reinforced

Print Date: 2025-10-04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	VALUE		
Molding shrinkage (normal)	0.9	%	ISO 294-4
Molding shrinkage (parallel)	0.3	%	ISO 294-4
MECHANICAL PROPERTIES	VALUE		
Tensile modulus	16500	MPa	ISO 527-1/-2
Stress at break	155	MPa	ISO 527-1/-2
Strain at break	1.6	%	ISO 527-1/-2
Flexural modulus	15000	MPa	ISO 178
Flexural strength	195	MPa	ISO 178
Charpy impact strength (+23°C)	55	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	60	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9.5	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES	VALUE		
Melting temperature (10°C/min)	225	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	205	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	225	°C	ISO 75-1/-2
ELECTRICAL PROPERTIES	VALUE		
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
OTHER PROPERTIES	VALUE		
Water absorption	0.3	%	Sim. to ISO 62

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1720	kg/m³	ISO 1183

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