

Akulon[®] Diablo HT—HG6

(PA66+PA6)—GF30

30% Glass Fiber Reinforced, Heat Stabilized

Print Date: 2025-10-04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		DRY / COND	
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	1.1 / *	%	ISO 294-4
MECHANICAL PROPERTIES		DRY / COND	
Tensile modulus	9800 / 5500	MPa	ISO 527-1/-2
Stress at break	190 / 95	MPa	ISO 527-1/-2
Strain at break	3.3 / 6.5	%	ISO 527-1/-2
Flexural modulus	9400 / —	MPa	ISO 178
Flexural strength	280 / —	MPa	ISO 178
Tensile modulus (200°C)	2600	MPa	ISO 527-1/-2
Stress at break (200°C)	55	MPa	ISO 527-1/-2
Strain at break (200°C)	11.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	75 / 85	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	55 / 55	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / 22	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10 / 11	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES		DRY / COND	
Melting temperature (10°C/min)	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	235 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	255 / *	°C	ISO 75-1/-2
OTHER PROPERTIES		DRY / COND	

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Water absorption	6.9 / *	%	Sim. to ISO 62
Humidity absorption	2.4 / *	%	Sim. to ISO 62
Density	1370 / –	kg/m³	ISO 1183

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