

Akulon[®] Diablo HDT2505BM

(PA66+PA6)—GF25

25% Glass Reinforced, Heat Stabilized, Blow Molding Grade

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	8050 / 4100	MPa	ISO 527-1/-2
Stress at break	140 / 62	MPa	ISO 527-1/-2
Strain at break	3.2 / 15	%	ISO 527-1/-2
Flexural modulus	6700 / 3300	MPa	ISO 178
Flexural strength	210 / 95	MPa	ISO 178
Tensile modulus (200°C)	1800	MPa	ISO 527-1/-2
Stress at break (200°C)	38	MPa	ISO 527-1/-2
Strain at break (200°C)	12	%	ISO 527-1/-2
Charpy impact strength (+23°C)	75 / 80	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	70 / 45	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12 / 14	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	8 / 4	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	254 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	210 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.2 / *	E-4/°C	ISO 11359-1/-2
OTHER PROPERTIES			
	DRY / COND		
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1310 / -	kg/m ³	ISO 1183