

Akulon[®] Diablo HDT2504BM

(PA66+PA6)—GF20

20% Glass Reinforced, Heat Stabilized, Blow Molding Grade

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	7000 / 3600	MPa	ISO 527-1/-2
Stress at break	125 / 57	MPa	ISO 527-1/-2
Strain at break	3.5 / 20	%	ISO 527-1/-2
Flexural modulus	5700 / 2750	MPa	ISO 178
Flexural strength	195 / 85	MPa	ISO 178
Tensile modulus (200°C)	1600	MPa	ISO 527-1/-2
Stress at break (200°C)	37	MPa	ISO 527-1/-2
Strain at break (200°C)	13	%	ISO 527-1/-2
Charpy impact strength (+23°C)	72 / 95	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	63 / 41	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)	6 / 3	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	255 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	220 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.3 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.3 / *	E-4/°C	ISO 11359-1/-2
OTHER PROPERTIES			
	DRY / COND		
Humidity absorption	2.6 / *	%	Sim. to ISO 62
Density	1270 / -	kg/m ³	ISO 1183

