

Akulon® PA6-HC10 UD

PA6-CF50

Continuous Carbon Fiber Reinforced, Uni-Directional Tape, Heat Stabilized, Black

*** Properties measured on product based on 24K fibers ***

Properties	Typical Data	Unit	Test Method
Physical tape properties			
	Value		
Areal weight - Tape	382	g/m ²	ISO 1172
Thickness - Tape	0.25	mm	
General physical properties			
	dry / cond		
Density	1390 / -	kg/m ³	ISO 1183
Fiber content (V/V)	38.5	%	ISO 11667
Mechanical tape properties			
	dry / cond		
Tensile modulus - 0° - Tape	110 / -	GPa	DSM Method
Stress at break - 0° - Tape	1100 / -	MPa	DSM Method
Strain at break - 0° - Tape	1.2	%	DSM Method
Thermal properties			
	dry / cond		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Glass transition temperature (10°C/min)	60 / *	°C	ISO 11357-1/-2
Other properties			
	dry / cond		
Humidity absorption	1 / *	%	Sim. to ISO 62

