Property Data (Provisional)

Envalior
Imagine the Future

UDea™ Akulon® K20HC60

PA6—CF60

60% Continuous Carbon Fiber Reinforced, Uni—Directional Tape, Heat Stabilized, Black

Print Date: 2024—11—12

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
GENERAL PHYSICAL PROPERTIES	DRY / COND		
Density	1450 / —	kg/m³	ISO 1183
Fiber content (V/V)	49	%	ISO 11667
PHYSICAL TAPE PROPERTIES	VALUE		
Areal weight — Tape	290	g/m²	ISO 1172
Thickness — Tape	0.2	mm	
MECHANICAL TAPE PROPERTIES	DRY / COND		
Tensile modulus — 0° — Tape	135 / —	GPa	ISO 527—4/—5
Stress at break — 0° — Tape	1700 / —	MPa	ISO 527—4/—5
Strain at break — 0° — Tape	1.4 / —	%	ISO 527—4/—5
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