

Akulon[®] K224–LPG6U

PA6–I–GF33

Light Stabilized, Impact Modified, 33% Glass Fiber Reinforced

Print Date: 2025–10–04

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.25 / *	%	ISO 294–4
Molding shrinkage (normal)	0.9 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	9000 / 4500	MPa	ISO 527–1/–2
Stress at break	125 / 70	MPa	ISO 527–1/–2
Strain at break	3.5 / 8	%	ISO 527–1/–2
Flexural modulus	7500 / –	MPa	ISO 178
Flexural strength	200 / –	MPa	ISO 178
Charpy impact strength (+23°C)	105 / 100	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	115 / 95	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	35 / 40	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	20 / 17	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	220 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	200 / *	°C	ISO 75–1/–2
Temp. of deflection under load (0.45 MPa)	215 / *	°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)	0.65 / *	E–4/°C	ISO 11359–1/–2
OTHER PROPERTIES			
	DRY / COND		
Water absorption	5.7 / *	%	Sim. to ISO 62

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Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1340 / *	kg/m³	ISO 1183

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