

Akulon® RePurposed RE30 BK00003

PA6-GF30

30% Glass Reinforced, Recycled Content

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Properties	Typical Data	Unit	Test Method
Rheological properties dry / cond			
Molding shrinkage (parallel)	0.5 / *	%	ISO 294-4
Molding shrinkage (normal)	1.1 / *	%	ISO 294-4
Mechanical properties dry / cond			
Tensile modulus	9400 / -	MPa	ISO 527-1/-2
Stress at break	165 / -	MPa	ISO 527-1/-2
Strain at break	2.8 / -	%	ISO 527-1/-2
Flexural modulus	8500 / -	MPa	ISO 178
Flexural strength	240 / -	MPa	ISO 178
Charpy impact strength (+23°C)	70 / -	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	60 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	8 / -	kJ/m ²	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)	220 / *	°C	ISO 75-1/-2
Other properties dry / cond			
Water absorption	6.3 / *	%	Sim. to ISO 62
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1340 / -	kg/m ³	ISO 1183