

Akulon[®] RePurposed RE15 BK00003

PA6—GF15

15% Glass Reinforced, Recycled Content

Sustainability

Recycled based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.35 / *	%	ISO 294-4
Molding shrinkage (normal)	1 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	6000 / 3300	MPa	ISO 527-1/-2
Stress at break	120 / 70	MPa	ISO 527-1/-2
Strain at break	2.8 / 12	%	ISO 527-1/-2
Flexural modulus	5200 / 3200	MPa	ISO 178
Flexural strength	170 / 105	MPa	ISO 178
Charpy impact strength (+23°C)	40 / 80	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	35 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6 / 9	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	5 / -	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)	195 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	215 / *	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Burning Behav. at 3.0 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	3.2 / *	mm	IEC 60695-11-10
Glow Wire Flammability Index GWFI	675 / –	°C	IEC 60695-2-12
GWFI (Thickness (1) tested)	0.8 / –	mm	IEC 60695-2-12
Glow Wire Flammability Index GWFI	675 / –	°C	IEC 60695-2-12
GWFI (Thickness (2) tested)	3 / –	mm	IEC 60695-2-12

OTHER PROPERTIES	DRY / COND		
Water absorption	7.6 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1240 / –	kg/m³	ISO 1183