

Akulon N 24 G6**PA 6**

30% glass fibre reinforced

1) Properties	Unit	2) Typical data	Test Methods
Physical properties			
Density	g/cm ³	1.35	* ISO 1183
Flammability			as per UL 94
at 1,6 mm	class	HB	-
at 0,8 mm	class(mm)	HB (0.8)	-
Moisture absorption			
at equilibrium in air 23 °C/ 50%RH	%	1,9	* ISO 62
after saturation in water 23 °C	%	6,3	*
Mechanical properties			
		dry	conditioned
Tensile test			
			ISO 527-1
yield stress (at 50mm/min)	MPa	-	-
yield strain (at 50 mm/min)	%	-	-
nom. strain at break (at 50 mm/min)	%	*	-
stress at break (at 5 mm/min)	MPa	140	-
strain at break (at 5 mm/min)	%	3,0	-
tensile modulus (at 1mm/min)	MPa	9000	-
Charpy impact strength			
			ISO 179/...
unnotched (at +23 °C)	KJ/m ²	NB	- ...1eU
unnotched (at -30 °C)	KJ/m ²	-	- ...1eU
notched (at +23 °C)	KJ/m ²	17	- ...1eA
notched (at -30 °C)	KJ/m ²	-	- ...1eA
Thermal properties			
		dry	conditioned
Heat deflection temperature			
			ISO 75-2
at 1.8 MPa	°C	210	*
at 0.45 MPa	°C	220	*
at 5.0 MPa	°C	*	*
Coeff. Of lin. Therm. Expansion			
			DIN 53752
in direction of flow	E-4/K	0,2	*
perpendicular to flow	E-4/K	0,7	*
Electrical			
		dry	conditioned
Relative permittivity			
			IEC 60250
at 50Hz	-	3,5	-
at 1 MHz	-	3,3	-
Loss factor			
			IEC 60250
at 50 Hz	E-4	50	-
at 1 MHz	E-4	150	-
Comparative tracking index	V	600	- IEC 60112
Volume resistivity	Ohm.cm	1E+15	- IEC 60093
Surface resistivity	Ohm	1E+15	- IEC 60093

* Data not applicable

NB No break (ductile fracture)

1) Specimen and processing conditions according to ISO 1874 or 7792 (Campus)

2) Typical data for natural coloured material (unless indicated otherwise).



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