



Properties	Standard references & Standard designations	Country of origin (Lab)	PRESS type resin R96	PULTRUSION type resin R6204	Units
			Tests Output	Tests Output	
Fire behavior					
Inflammability	IEC 695-2-1 <i>Glow wire test</i>	International (LNE)	960	960	°C
Inflammability	UL 94 <i>Test for flammability of plastic materials</i>	USA (LNE)	V0	V0	-
Flammability	NF P 92-507 <i>Fire behavior of building materials</i>	France (LNE)	M3	M2	-
Spread of Flame	ASTM E84 <i>Surface burning characteristics of building materials</i>	USA (OC)	35	35	Index FSI
Spread of Flame	BS 476 Part 7 <i>Surface spread of flame test for materials</i>	England (Uni. Gent)	Class 2	Class 2	-
Fire propagation	BS 476 Part 6 <i>Fire propagation test for materials</i>	England (WFR)	18,3	14,1	Index
Oxygen & Smoke Index	NF F 16-101 <i>Fire behavior of materials for rolling stock</i>	France (LNE)	I2 (> 32) F0 (< 5)	I2 (> 32) F1 (< 20)	-
Smoke	BS 6853 App B52 <i>Fire precautions in the design and construction of rolling stock</i>	England (WFR)	10,47 / 11,23	17,34 / 18,74	Index
Oxygen index	ASTM D 2863	USA	> 35	-	%
Fire protection Index	EMPA	Switzerland	5.3	5.3	Index
Fire Standard	DIN 4102	Deutschland	B2	B2	-
Fire Standard	IEC 332-3 <i>Fire resistance of cable</i>	Switzerland	Passed	-	-
Mechanical behavior					
Breaking point	NEMA FG1 <i>Fiber glass cable ladder systems</i>	USA (Ebo)	N/A	A to C Class	-
Tensile Strength at break point	DIN 53455 / ISO 527	International	37	155	MPa
Modulus of Elasticity	DIN 53457 / ISO 527-4	International	5000 < 7000	10000 < 15000	MPa
Choc Resistance	DIN 53453	Deutschland	27 / IPxx 7	80 / 25	kJ/mm ²
Hardness	ASTM D 2583 / NF T 57-106 <i>Test method for indentation hardness of plastic (Barcol impresser)</i>		55 < 65	35 < 45	-
Heat Resistance	VSM 77116 <i>Martens point</i>	Switzerland	~ 90	~ 200 / 80	°C
Accelerated Aging	ISO 4892-2 <i>Mechanical and UV resistance</i>	France	Excellent	Excellent	-
Degrees of Protection	NF EN 50102 <i>Degrees of protection against mechanical impact</i>	France	IK10	IK09 - IK10	-
Electrical behavior					
Surface Resitivity	DIN 53482 / EN 50014	Europe	~ 10 ¹²	~ 10 ¹¹	Ω
Volume Resitivity	DIN 53482	Deutschland	~ 10 ¹³	~ 10 ¹²	Ω.m
Breakage Voltage	IEC 243-1	International	> 15	> 15	kV/mm
Food Industry					
Acceptance in Food industry	lanesco	France	Suited fo food industries	Suited fo food industries	
On board ships & offshore installations					
Product Type Approual	ABS <i>Marine & offshore installations</i>	France	Approved K2	Approved KP - UL	
Product Type Approual	Veritas	France	Approved K2	Approved KP - UL	



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Others					
Density	DIN 53479		1.75 < 1.90	1.75 < 1.90	g/cm ³
Thermal conductivity			0,3	0,3	W/m.K
Linear Thermal Dilatation	DIN 53752	Deutschland	~ 36 x 10 ⁻⁶	~ 8 x 10 ⁻⁶	cm/cm/K
Water Absorption	NF EN ISO 62	France	0.1 < 0.4	0.4 < 0.7	%

Press type resin applies for the K² (previously called KK) and BK range
 Pultruded type resin applies for the KP and UL ranges