

# PVC-U

## TECHNICAL DATA SHEET

**FULL NAME:** POLYVINYL CHLORIDE UNPLASTICIZED

PROPERTIES	TEST METHOD	UNIT	GUIDELINE VALUES
DENSITY	DIN EN ISO 1183-1	g/cm <sup>3</sup>	1,45
FLAMMABILITY (THICKNESS 3 MM / 6 MM)	UL 94		V0 / V0

MECHANICAL PROPERTIES			
YIELD STRESS	DIN EN ISO 527	MPA	45
ELONGATION AT BREAK	DIN EN ISO 527	%	15
TENSILE MODULUS OF ELASTICITY	DIN EN ISO 527	MPA	3000
NOTCHED IMPACT STRENGTH (CHARPY)	DIN EN ISO 179	KJ/M <sup>2</sup>	2
SHORE HARDNESS	DIN EN ISO 868	SCALE D	79

THERMAL PROPERTIES			
THERMAL CONDUCTIVITY	DIN 52612-1	W / (M * K)	0,2
COEFFICIENT OF LINEAR THERMAL EXPANSION	DIN 53752	10 <sup>-6</sup> K <sup>-1</sup>	80
SERVICE TEMPERATURE, LONG TERM	AVERAGE	°C	0 / +60
SERVICE TEMPERATURE, SHORT TERM (MAX)	AVERAGE	°C	70

ELECTRICAL PROPERTIES			
DIELECTRIC CONSTANT	IEC 60250	-	3
DIELECTRIC DISSIPATION FACTOR (10 <sup>6</sup> Hz)	IEC 60250	-	0,02
VOLUME RESISTIVITY	DIN EN 62631-3-1	Ω*CM	10 <sup>15</sup>
SURFACE RESISTIVITY	DIN EN 62631-3-2	Ω	10 <sup>13</sup>

REV.	DATE	DESCRIPTION	MODIFIED PARAGRAPHS	WRITTEN BY	APPROVED BY
01	12/2020	LAYOUT UPDATE	//	601.37	601.37

### NOTES

THE SHORT-TERM MAXIMUM APPLICATION TEMPERATURE ONLY APPLIES TO VERY LOW MECHANICAL STRESS FOR A FEW HOURS. THE LONG-TERM MAXIMUM APPLICATION TEMPERATURE IS BASED ON THE THERMAL AGEING OF PLASTICS BY OXIDATION, RESULTING IN A DECREASE OF THE MECHANICAL PROPERTIES. THIS APPLIES TO AN EXPOSURE TO TEMPERATURES FOR AT LEAST 5.000 HOURS CAUSING A 50% LOSS OF THE TENSILE STRENGTH FROM THE ORIGINAL VALUE (MEASURED AT ROOM TEMPERATURE). THIS VALUE SAYS NOTHING ABOUT THE MECHANICAL STRENGTH OF THE MATERIAL AT HIGH APPLICATION TEMPERATURES. IN CASE OF THICK-WALLED PARTS, ONLY SURFACE LAYER IS AFFECTED BY OXIDATION FROM HIGH TEMPERATURES. WITH THE ADDITION OF ANTIOXIDANTS, A BETTER PROTECTION OF THE SURFACE LAYER IS ACHIEVED. IN ANY CASE, THE CENTER AREA OF THE MATERIAL REMAINS UNAFFECTED. THE MINIMUM APPLICATION TEMPERATURE IS BASICALLY INFLUENCED BY POSSIBLE STRESS FACTORS LIKE IMPACT AND/OR SHOCK UNDER

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APPLICATION. THE VALUES STATED REFER TO AN MINIMUM DEGREE OF IMPACT STRESS. THE ELECTRICAL PROPERTIES AS STATED RESULT FROM MEASUREMENTS ON NATURAL, DRY MATERIAL. WITH OTHER COLORS (IN PARTICULAR BLACK) OR SATURATED MATERIAL, THERE MAY BE CLEAR DIFFERENCES IN THE ELECTRICAL PROPERTIES.

**THIS DATASHEET AND ALL PROPRIETIES INDICATED COME DIRECTLY FROM THE PRODUCER'S STUDIES AND TESTS. D.H. LAMINA S.R.L. DOES NOT PRODUCE THE MATERIAL.**

THE DATA STATED ABOVE ARE AVERAGE VALUES ASCERTAINED BY STATISTICAL TESTS ON A REGULAR BASIS. THEY ARE IN ACCORDANCE WITH DIN EN 15860. THEY SERVE AS INFORMATION ABOUT OUR PRODUCTS AND ARE PRESENTED AS A GUIDE TO CHOOSE FROM OUR RANGE OF MATERIALS. THIS, HOWEVER, DOES NOT INCLUDE AN ASSURANCE OF SPECIFIC PROPERTIES OR THE SUITABILITY FOR PARTICULAR APPLICATION PURPOSES THAT ARE LEGALLY BINDING. SINCE THE PROPERTIES ALSO DEPEND ON THE DIMENSION OF THE SEMI-FINISHED PRODUCTS AND THE DEGREE OF CRYSTALLIZATION (E.G. NUCLEATING BY PIGMENTS), THE ACTUAL VALUES OF THE PROPERTIES OF PARTICULAR PRODUCT MAY DIFFER FROM INDICATED VALUES

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