TECHNICAL CHARACTERISTICS

TECHNICAL DATA SHEET

Date: 21.05.2026
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No: 1

MATERIAL NAME

PVC/A

Standard: IEC 60502-1

Property / Description	Unit	Value	Test Standard
Mechanical Properties			
Min. Tensile Strength	N/mm2	**12.5**	IEC 60502-1
Min. Elongation at Break	%	**150**	IEC 60502-1
Hardness Shore A	Shore A	**80+/-5**	ISO 868
Density	g/cm3	**1.45**	
Thermal Properties			
Max. Conductor Temperature In Normal Operation	°C	**70**	IEC 60502-1 clause 4.2
Min. Oxygen Index (LOI)	23		
Min. Temperature Index (TI)			
Properties After Ageing in Air Oven			
Temperature	°C	**100+/-2**	
Duration	h	**168**	
Min. Tensile Strength After Ageing	N/mm2	**12.5**	
Min. Elongation at Break After Ageing	%	**150**	
Max. Variation for Tensile Strength	%	**+/-25**	
Heat Shock Test	39		
Temperature	°C	**150+/-3**	
Duration	h	**1**	
Requirement		**No Crack**	
Pressure Test at High Temperature			
Temperature	°C	**80+/-2**	
Max. Indentation Value	%	**50**	
Behaviour at low temperature			
Max. cold bending test for diameter			
Temperature	°C	**-15+/-2**	
Cold elongation test on dumb-bells			IEC 60811-505
Temperature			
Requirement		**No Crack**	
Water absorption		**57**	
Temperature			
Duration	h	**240**	
Requirement	59	**no breakdown**	