

CCAPU / CFIN / CCONEC / CCOF / CCDE / CMVBP

TECHNICAL DATA

TECHNICAL DATA	CURRENT VALUES	TEST METHODS
Material		
Material	PE, modified; free of lead and cadmiun	n/a
Surface	smooth, glossy	n/a
Specific gravity	1.2 g/cm ³ max.	ASTM-D 792, A-I
Mechanical		
Tensile strength	10 MPa	IEC 60684-2
Elongation	400%	IEC 60684-2
Thermal		
Tensile strength after thermal ageing (168 h at 160°C)	8 MPa	IEC 60684-2
Elongation after thermal ageing (168 h at 160°C)	400%	IEC 60684-2
Cold bend test	does not break at -40°C (-40°F)	IEC 60684-2
Combustion behaviour	passed	EN 60695-2-11
Storage temperature	40°C max.	IEC 60684-2
Continuous operating temperature	-40°C to 105°C (-40°F to 221°F)	IEC 216
Chemical		
Corrosive action	non-corrosive	ASTM-D 2671 Meth. A
Compatibility with copper	non-corrosive	ASTM-D 2671 Meth. B
Water absorption	0.20%	VDE 0473
Electrical		
Dielectric strength	≤36 kV	EN 60243-1
AC withstand (dry) 1 minute	15 kV / 25 kV; no breakdown or flashover	DIN VDE V 0212-490
AC withstand (wet) 1 minute	15 kV / 25 kV; no breakdown or flashover	DIN VDE V 0212-490
AC long term withstand (dry) 4 hours	8,6 kV / 15 kV; no breakdown or flashover	DIN VDE V 0212-490
Resistance to weather		
UV resistance	Pass to DIN VDE V 02012-490	ISO 4892-2

Additional Product: CMVBT

TECHNICAL DATA

TECHNICAL DATA	CURRENT VALUES	TEST METHODS
Physical		
Tensile strength	8.3 MPa	ASTM D412, ISO 37
Elongation	370%	ASTM D412, ISO 37
Shrink ratio	1.7:1	ASTM D2671
Tensile strength after heat ageing (7 days at 175°C)	10 MPa	ASTM D2671
Elongation after heat ageing (7 days at 175°C)	200%	ASTM D2671
Heat shock (4 hr at 225°C)	no cracking or flowing	ASTM D2671
Low temperature flexibility (4 hr at -40°C)	no cracking	ASTM D2671
Combustion behaviour	passed	ANSI C37.20; ASTM D2671
Chemical		
Corrosion	no corrosion	ASTM D2671
Water absorption	0.25%	ASTM D570
Fluid resistance	good to excellent	SAE-AMS-DTL-23053/15
Electrical		
Dielectric strength	20 kV/mm at 2 mm	ASTM D149
Surface resistance	510×10^9 ohm	ASTM D257
Volume resistivity	1.9×10^{16} ohm-cm	ASTM D257
Dielectric constant	3.4	ASTM D150
Tracking resistance (2500 V, 300 min)	non-tracking	ANSI C37.20; ASTM D2303
Weathering	non-tracking after 6,000 hrs	ASTM G53
Adhesive		
Adhesive softening point	100°C	ASTM E28
Low temperature flexibility	-25°C	STM C12
Lap sheer	1.7 MPa	STM C9
Peel strength to aluminum	42.5 N/25mm	STM C8
Tracking tests (2500 V, 300 min)	Non-tracking	ANSI 37.20; ASTM D2303

Additional Product: CBTH / CBTM

TECHNICAL DATA

TECHNICAL DATA	CURRENT VALUES	TEST METHODS
Physical		
Tensile strength	8.3 MPa	ASTM D412, ISO 37
Elongation	370%	ASTM D412, ISO 37
Longitudinal change	-10% max. sizes 1100, 2000; -15% max. sizes 2700 to 6600	ASTM D2671
Tensile strength after heat ageing (7 days at 175°C)	10 MPa	ASTM D2671
Elongation after heat ageing (7 days at 175°C)	200%	ASTM D2671
Heat shock (4 hr at 225°C)	no cracking or flowing	ASTM D2617
Low temperature flexibility (4 hr at -40°C)	no cracking	ASTM D2671
Combustion behaviour	passed	ANSI C37.20; ASTM D2671
Chemical		
Corrosion	no corrosion	ASTM D2671
Water absorption	0.25%	ASTM D570
Fluid resistance	good to excellent	SAE-AMS-DTL-23053/15
Electrical		
Dielectric strength	20 kV/mm at 2 mm	ASTM D149
Surface resistance	510 x 10 ⁹ ohm	ASTM D257
Volume resistivity	1.9 x 10 ¹⁶ ohm-cm	ASTM D257
Dielectric constant	3.4	ASTM D150
Tracking resistance (2500 V, 300 min)	non-tracking	ANSI C37.20; ASTM D2303
Weathering	non-tracking after 6,000 hrs	ASTM G53

FOR FURTHER INFORMATION, PLEASE CONTACT:

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