

Product Data Sheet

Witcogel[®] TCV 482/1 Telephone Cable Compound

▪ Product Description

TCV 482/1 is a high quality telephone cable compound composed of selected elastomers and polymers, The application temperature is relative low, when compared with polymeric compounds

▪ Physical Properties

Properties	Unit	Method	Specification	Typical
Viscosity at 120°C	mm ² /s	ASTM D 445	160-210	180
Colour		ASTM D 1500	Max. 2.0	1.0
Drop Melting Point	°C	ASTM D 127	Min. 100	103
Dropping Point, *	°C	ASTM D 566/IEC 811.5.1	Min. 95	102
Cone Penetration at 25°C	0.1 mm	ASTM D 937	50-70	59
COC Flash Point	°C	ASTM D 92	Min. 240	290
Di-electric Constant at 23°C 50 Hz		ASTM D 150/IEC 250	<2.3	2.24
Di-electric Constant at 23°C 1MHz		ASTM D 150/IEC 250	<2.3	2.2
Dissipation Factor at 23°C 1MHz		ASTM D 150	<0.0015	0.0013
Simulated Cable Flow Test, 24 hr at 65°C/70°C/80°C		REA PE 39/89	pass	pass
Volume Resistivity at 20°C	Tohm.m	ASTM D 257	Min. 100	
Volume Resistivity at 25°C	Tohm.m	ASTM D 257	Min. 10	
Volume Resistivity at 100°C	Gohm.m	ASTM D 1169/IEC 811	Min. 500	
P.E. Absorption, 10 d/70°C, MD/HD		VDE-0472/IEC 538 B	Max.10/max.6	6 / 3
Plasticity at -15°C		IEC 811.5.6	pass	pass
Oil Separation 50°C		IEC 811.5.1	pass	pass
Total Acid Value	mg/KOH/g	IEC 811.5/IEC 538 B7	<0.05	0.02
Volatility, 65 ± 2°C/7d.	%	FED 791 C 321.3	<0.1	0.03
O.I.T. at 190 C	min.	DSC - WM	>10	15

*) Sample conditioned according to
ASTM D 937

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