

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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