

Thixotropic Gel for Telecommunication Cables



Product Application

- The chemical properties of the **Info-gel K 880x** compound remain stable for a very long period if kept in temperature ranges between $-50\text{ }^{\circ}\text{C}$ up to $+85\text{ }^{\circ}\text{C}$; short exposures to temperatures up to $300\text{ }^{\circ}\text{C}$ will not affect them.
- Cables manufactured with **Info-gel K 880x** will show an excellent balance of properties and will pass both attenuation test at low temperature and oil separation and drip test at high temperature.
- The compound does not affect thoroughly dried or cured inks generally used for optical fibre coating.
- No impairment of splicing techniques.

General Description

Info-gel K 880x is a fully synthetic Thixotropic compound suitable for filling and/or flooding all the most common types of optical fibre cables such as loose tube, slotted core, ribbon, etc.

Processing

Gel may be pumped with the usual metering pump devices, at room temperature (cold filling technology). Constant quality ensures high-speed, trouble-free production.

Compatibilities

O.F. Coating	Compatible with O.F. coatings (UV Acrylate) commonly used in optical fiber cables
PET, PBT, PA (12)	Compatible with thermoplastic materials commonly used in optical fiber cables
LDPE, HDPE	To be checked by the cable manufacturer; results are greatly influenced by material type



Typical Product Characteristics – Nominal Values

Properties	Unit	Values	Test Method
Density (20 °C)	g/cm ³	0.85 ± 0.02	DIN 51757, ASTM D 1481
Insulation Index	Ohm. Cm	> 10 ¹⁶	DIN 53482
Flash Point	°C	>220	DIN ISO 2592 Torsion Pendulum Analysis
Viscosity			DIN 53019
(50 s-1, 20 °C)	mPA . s	5,000 ± 1,000	
Yield stress	Pa	>25	(by means of flow curve, 20 °C)
Cone Penetration			DIN 51580, ASTM D 937
20 °C	1/10mm	>370	
-40 °C	1/10mm	>260	
Volatiles b.w.	%	< 0.5	80 °C / 24 hrs
Oxygen Induction Time	Min	> 60	ASTM D3895, Belcore GR-20 Core (190 °C/Cu sample pan)
Oil Separation (FTM 791.C)	%	0	80 °C / 24 hrs

Packaging

20 kg pail	top internal diameter	328 ± 1 mm
	bottom internal diameter	312 ± 1 mm
	Height	383 ± 1 mm
170 kg ribbed drum	internal diameter	571 ± 3 mm
	Height	875 ± 5 mm
170 kg straight sided drum	internal diameter	571 ± 3 mm
	Height	885 ± 5 mm
850 kg returnable collapsible container	length x width x height	1,200 x 1,000 x 1,185 mm
850 kg disposable lined container	length x width x height	1,200 x 1,000 x 1,400 mm

Other container types and sizes such as plastic or stainless steel can be tailored to customer requirements based on quantities and location.

Storage Information

Protect from moisture; store at a maximum temperature of 50 °C; storage life several years.

Note: This Technical Information reflects the current knowledge, and is designed to inform and advise. Indore Gel Pvt. Ltd. I assumes no liability for correctness. Modifications may be made in the interest of technical improvement



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