



GEL CROSS-LINK DENSITY

Technical Datasheet

METHOD SUMMARY

Solvent extraction was utilized to determine the level of extractable components in the Gel-Pak material under extreme conditions. This data may be utilized as an indicator of Gel purity for the different types of Gel processing and retention levels. It also reveals the level of cross-linking (non-extractable) components of the material.

TEST METHOD AND RESULTS

The Gel material was submerged in a soxhlet extractor and processed for 15 hours in boiling isopropyl alcohol, IPA. The measured difference in Gel mass loss before and after extraction is summarized below.

Retention Level	Gel Material Mass Loss		Ratio (Standard/DGL)
	Standard Gel	DGL ("Process B" Gel)	
X0/XL	4.50%	0.03%	150:1
X4	8.00%	0.04%	228:1
X8	22.00%	0.04%	511:1

RESULTS SUMMARY

DGL "Process B" Gel material is a clean material based upon an extreme solvent extraction test. DGL Gel material is 150 to 511 times cleaner than Standard Gel, depending on retention level. The DGL Gel material was designed to minimize contamination for sensitive customer applications. DGL Gel material shows essentially no mass loss as a result of the solvent process which is indicative of an extremely clean and stable (highly cross-linked) material.

GEL-PAK

31398 Huntwood Avenue, Hayward, CA 94544

Toll-Free 888-621-4147 **Phone** 510-576-2220 **Fax** 510-576-2282

Website www.gelpak.com

Division of

DELPHON