

XFN 1450

Bio Poly Alkenyl-Phenol Novolac

DESCRIPTION

The XFN 1450 is a bio and recycled multifunctional polymeric novolac with primary OH, suitable for both 1K and 2K epoxy and polyurethane, offering capabilities as a toughening agent, anti-oxidant and corrosion resistant agent.

In epoxy formulations, it hardens in presence of an added amine or imidazole.

The long 15C side-chain tends to increase the mechanical-flexibility of the system, but also to improve the resin adhesion to even hard-to-stick substrates, such as acrylic paints, natural-fibers.

The viscosity of the 1450 is low enough to act as a diluent.

BENEFITS & PROPERTIES

- Aromatic low-viscosity compatibilizer, with dispersant properties
- Improves adhesion under cold temperatures
- Supports heat and dimensional stability
- Offers superior thermal stability
- Non-estrogenic, safe
- Low-color, low-odor

Typical Properties ¹	Method	Unit	Value
Appearance	Gardner	-	9 to 12
Viscosity	ASTM D 4878	cps	500 to 1500
Acid Value	internal	mg KOH/g	0.1 - 1
Functionality	-	-	4
Hydroxyl Number	ASTM E 222	mg KOH/g	316-341
Density @ 25°C	ASTM D 1475	g/ml	0.95
Water (Karl Fischer)	ASTM E 203	%	0.2-0.3
Aromatic Content	(calculated)	%	22
Bio-based content	ASTM D 6866	%	77

(1) Typical properties are not to be construed as specifications.

STORAGE AND STABILITY

XFN 1450 could absorb water slowly over time, especially in humid environments. Containers should be kept closed and protected from contamination with moisture and foreign materials. Storage temperatures recommended are 20-25°C.

HEALTH AND SAFETY CONSIDERATION

Please consult the Material Safety Data Sheet of the XFN-1450.

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Auto-Declaration, Letter Type II
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Note: The data submitted in this TDS are based on our current knowledge and experience. They do not constitute a guarantee in the legal sense of the term and, in view of the many factors that may affect processing and application, do not relieve those to whom they are supplied from the responsibility of carrying out their own tests

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