

Protobind™ KW

Protobind™ KW is a kraft hardwood lignin that can be used in various applications. It is a non-toxic product from renewable sources. **Protobind™** KW can be used to replace and to reduce the usage of certain petrochemicals without compromising the performance

TYPICAL END USES

- Antioxidant
- Board Binder (PF, UF, MF, RF, ...) Phenol replacement in PF resin
- Tires
- Concrete
- Asphalt
- Carbon Fiber
- Dispersant
- Emulsifier
- Foams/Plastics/Polymers (PU, Epoxy resins, ...)
- Paper-based Laminate
- Chemicals: Cresols, Catechol, Resorcinol, Quinones, Vanillin, Guaiacols
- Battery

TYPICAL PROPERTIES

% Solids.....	> 95	% Solubility in water (acid or neutral).....	NIL
% Ash (800°C)	< 6.0	% Solubility in water (alkali)	> 99%
pH (10% aq. Suspension)	~ 5.0	% Solubility in Phenol	> 95%
Number Avg. Molecular Wt. (Mn).....	750—950	% Solubility in DMF	> 95%
Weight Avg. Molecular Wt. (Mw).....	2500—3500	% Solubility in DMSO.....	> 95%
Bulk Density, kg/L.....	~ 0.40	Glass Transition Temperature, °C.....	~145
Particle Size Distribution (Dv50, µm).....	<30	Aliphatic OH content, mmol/g	1.1—1.5
Particle Size Distribution (Dv90, µm).....	<50	Phenolic OH content, mmol/g.....	3.8—4.2
Specific surface Area, m ² /kg.....	> 1000	Acid OH content, mmol/g	0.6—1.0

HANDLING

This product has to be used and disposed of according to the indications given in its safety data sheet.

STORAGE RECOMMENDATION

- Ensuring stock is kept at a moderate temperature (5 –40°C).
- Shelf life of min. 2 year if stored in a dry, cool area in its original closed packaging.

PACKAGING

Bags: 40 kg
Jumbo Bags: 250 kg / 350 kg / 750 kg / 1000 kg

FOR MORE INFORMATION

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