



## DINGNUO POLYMER TECHNOLOGY GROUP CO., LTD

Rm. 1201-1, 12/F, Lingshan East Rd., Tianhe Dist., Guangzhou, Guangdong, China

TEL: +86-020-82386132; FAX: +86-020-82386132

Email: saleservice@dingnuo-polymer.com

### **EPOXIDIZED SOYA BEAN OIL (ESBO)**

#### **PROPERTY:**

ESBO is a widely used, **non-toxic auxiliary plasticizer and heat stabilizer for PVC**. It is typically used in combination with primary plasticizers to improve flexibility, processability, and cost efficiency. ESBO appears as a light yellow, clear oily liquid at room temperature, soluble in most organic solvents, and slightly soluble in alcohol. It provides good heat and light stability, oil resistance, and water resistance. It can enhance migration resistance when used with polymeric plasticizers, and can generate synergy effects in combination with heat stabilizers.

#### **APPLICATION:**

ESBO is applicable for medical appliances, drug and food package, synthetic leather & toys (odorless), cable and wire insulation and sheathing, hoses and tubes. It is also used in calendaring & extrusion products (e.g. films, rigid sheets), blow moulding products (e.g. plastic bottle), injection moulding products (e.g. electrical component), and coatings (e.g. weld sealant, potting compound, UV curing coating).

#### **SPECIFICATION:**

Item of Analysis	Unit	Value
Appearance		Light yellow, transparent oily liquid
Color	Platinum-Cobalt No. $\leq$	150
Relative Density	(25°C), g/cm <sup>3</sup>	0.985-0.995
Viscosity	c-poise (25°C) $\leq$	390
Volatile & Water (heat loss)	125°C*3hrs, % $\leq$	0.3
Flash Point	°C $\geq$	280
Refractive Index	(25°C)	1.467-1.473
Epoxy Value	% $\geq$	6.6
Acid Value	KOH mg/g $\leq$	0.5
Iodine Value	gI <sub>2</sub> /100g $\leq$	2.8
Heat Stability	% $\geq$	95

#### **PACKING:**

In iron drums, 200kg net weight per drum, total 80 drums (16MT) per 20' FCL, OR  
In IBC tank, 1,000kg net weight per tank, total 20 tanks (20MT) per 20' FCL, OR  
In flexibag, around 21-23MT per 20' FCL.

#### **STORAGE/TRANSPORTATION:**

Store it at cool, dry, and well-ventilated places, such as a common chemical goods and general warehouse. Keep the container sealed when not in use.