

DIISONONYLPHTHALATE (DINP)

GENERAL DESCRIPTION:

Product received from phthalic anhydride under reaction with isononyl alcohol in esters; plasticiser. Used in all vinyls and its applications, artificial soles and calendering. DINP is preferred case of low viscosity PVC paste applications.

Trade Name: DIISONONYLPHTHALATE
Chemical Name: Phthalic diisononylester
Chemical Formula: $C_6H_4(COOC_9H_{19})_2$
CAS Number: 28553-12-0

TECHNICAL QUALITY CONDITIONS:

Properties	Limits	Method
Appearance	Clear, Colourless Liquid	visual
Odour	Slight, Typical	
Molecular Weight	418	
Water Content	Max. 0,05%	ASTM D 1364
Viscosity (20 °C)	70-80 cp	ASTM D 1045
Density (20 °C)	0,970 – 0,974 g/cm ³	ASTM D 1045
Refractive Index (20 °C)	1,4830 - 1,4870	ASTM D 1045
Acid Index	Max. 0.07 mg KOH /g	ASTM D 1045
Flash Point	Min. 205 °C	OPEN POT

ADVANTAGES

- Does not cause chemical changes at polymers, but executes physical and mechanical changes.
- May jelly all the polymeric materials quickly and easily.
- Resisting the heat; increases the life of plastics.
- Could be solved with general solvents.
- Could be mixed with all monomers at soften of PVC.
- Supplies lightening.
- High electrical resistance.
- Could not be extracted with water.
- Could perform in low temperature.