

## DIISODECYLPHTHALATE (DIDP)

### GENERAL DESCRIPTION:

Product received from phthalic anhydride under reaction with isodecanol in esters; plasticiser. Used in the production of rigid and soft PVC, applies in the pastes and isolation of cables.

Trade Name: DIISODECYLPHTHALATE  
Chemical Name: Phthalic diisodecylester  
Chemical Formula:  $C_{6}H_{4}(COOC_{10}H_{21})_{2}$   
CAS Number: 26761-40-0

### TECHNICAL QUALITY CONDITIONS:

Properties	Limits	Method
Appearance	Clear, Colourless Liquid	visual
Odour	Slight, Typical	
Molecular Weight	446	
Water Content	Max. 0,05%	ASTM D 1364
Viscosity (20 °C )	110-122 cp	ASTM D 1045
Density (20 °C)	0,964 – 0,970 g/cm <sup>3</sup>	areometer
Refractive Index (20 °C)	1,4840 - 1,4880	ASTM D 1045
Acid Index	Max. 0.07 mg KOH /g	ASTM D 1045
Flash Point	Min. 220 °C	OPEN POT

### ADVANTAGES

- Does not cause any chemicals structure of the polymers, but provides the requested physical and mechanical changes.
- Causes all the polymeric materials easy and quick jelly.
- Could be solved with all general solvents.
- Extends the life of plastics by increasing the resistance to heat.
- Could be mixed with all monomers at soften of PVC.
- Volatility is low.
- High electrical resistance.
- Could not be extracted with water.
- At low temperature processes increases the refractive index.
- At PVC paste application, extend it's life when compared with DOP.
- It has high temperature stability.