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Tri- Isononyl Trimellitate (TINTM)

PROPERTY:

TINTM is a **phthalate-free, high-temperature resistant plasticizer**, appearing as a transparent, almost odorless oily liquid, soluble in most organic solvents. TINTM offers excellent compatibility with PVC resin, heat resistance, electrical insulation property, and ultra-low volatility. Compared with TOTM, it provides comparable plasticizing efficiency, with improved durability, low-temperature flexibility, aging resistance, and reduced fume generation during processing. The longer and more branched isononyl structure provides enhanced molecular stability, making TINTM a cost-effective alternative to TOTM.

APPLICATION:

TINTM is recommended for products requiring high heat and aging resistance, such as **UL 90°C and UL 105°C wire and cable insulation and sheathing**. It is also suitable for automotive interiors, garden hoses, artificial leather, and sheets.

SPECIFICATION:

Item of Analysis	Unit	Value
Appearance		Transparent oily liquid
Color	Platinum-Cobalt No. ≤	50
Acid Value	KOH mg/g ≤	0.10
Water Content	% ≤	0.05
Relative Density	(20°C), g/cm ³	0.977-0.983
Ester Content	% ≥	99.0
Volume Resistivity	*10 ¹¹ Ω·m ≥	3.0
Refractive Index		1.480-1.486

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.