

# Enhanced automotive applications

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Jayflex™ DINP offers the optimal balance of processability and performance for your automotive applications.

By creating opportunities for cost savings and improved performance of automotive products, Jayflex DINP is a cost-effective substitute for DOP in many flexible PVC applications.

### Significant cost savings (lower plasticizer density)

Alternatively, the lower density of Jayflex DINP allows the amount of filler to be increased, thereby reducing the formulation cost.

### Key advantages

- Significant cost savings (lower plasticizer density)
- Increased plasticizer retention (lower volatility)
- Reduced costs (more stable viscosity)

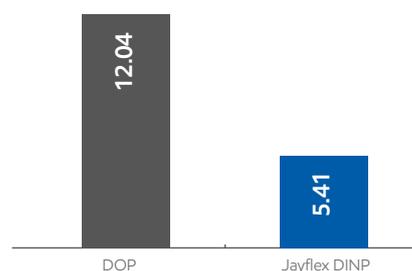
Raw Material	Density (g/cm <sup>3</sup> )	Formulation A (phr)	Formulation B (phr)
EPVC	1.4	100	100
DOP	0.986	100	0
DINP	0.974	0	104
Filler	2.7	100	107.8
Formulation	Density (g/cm <sup>3</sup> )	1.4294	1.4294

To explore your formulation possibilities, please contact your local ExxonMobil Sales Representative.

### Increased plasticizer retention (lower volatility)

Due to its higher molecular weight, Jayflex DINP is discernibly less volatile than DOP, which means lower plasticizer evaporation during the gelation/fusion process and lower plasticizer loss during the product lifecycle. Consequently, Jayflex DINP can help you improve the performance of your automotive products – from less cracking and fogging to better aging and longer service life.

Percentage of neat plasticizer weight loss  
(after 24h at 155°C forced ventilated oven)



Source: TSR 2015-048  
Test Method: Based on ASTM D2288

## Reduced costs (more stable viscosity)

Jayflex™ DINP provides superior viscosity stability compared to DOP — consequently requiring less frequent addition of viscosity depressants and remixing time to maintain plastisol viscosity. As a result, the superior viscosity stability of Jayflex DINP can help reduce your costs and improve production efficiency.\*

Test Method : Brookfield Viscosity Test, based on ASTM D1824 / based on GB/T 12004; condition: temperature 23C. RPM and Spindle No# based on specific formulation and application.



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\*Besides plasticizer type, other factors — including, but not limited to, type and dosage of PVC, filler, etc. — could also impact plastisol viscosity stability.

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