

Eastman™ DBT
non-phthalate plasticizer

**High-solvating plasticizer
for PVC plastisols**

EASTMAN

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High-solvating plasticizer for PVC plastisols

- Lower plastisol viscosity along with good viscosity stability
- Excellent low temperature flexibility
- Reliability of supply with no labeling required

As the sole plasticizer ...

Figure 1 shows that Eastman™ DBT non-phthalate plasticizer imparts lower plastisol viscosity and good viscosity stability when compared with typical high-solvating plasticizers.

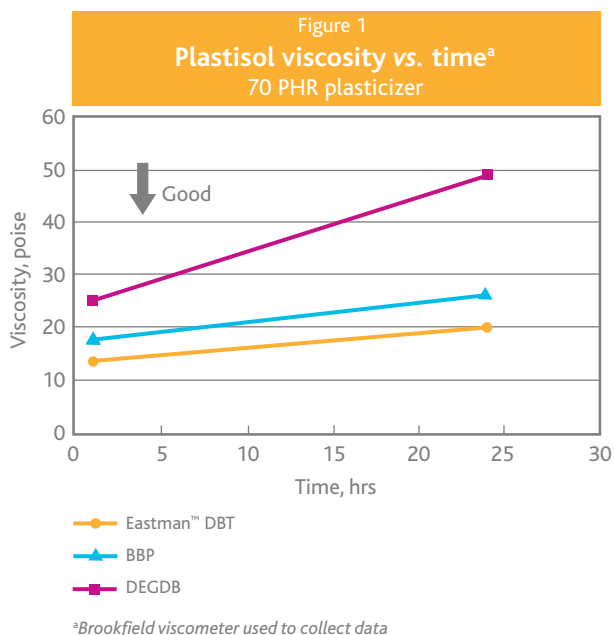
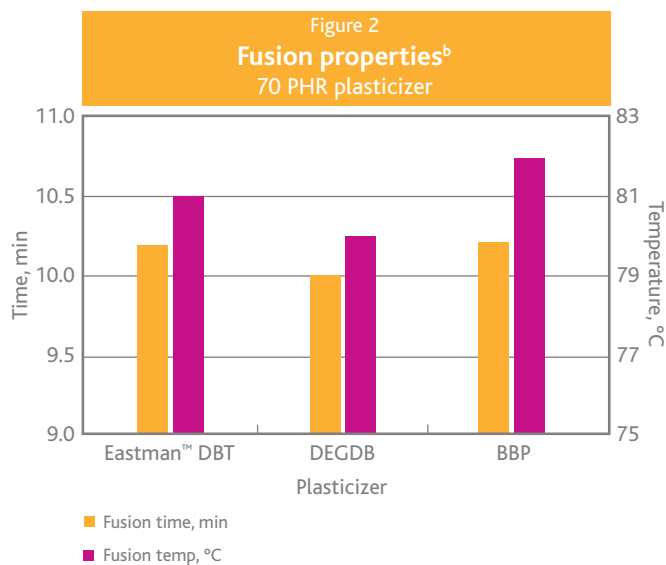


Figure 2 shows that Eastman™ DBT non-phthalate plasticizer fusion properties (time and temperature) are similar to DEGDB and BBP.



As shown in Table 1, physical properties of Eastman™ DBT non-phthalate plasticizer are similar to those of BBP and DEGDB. One difference to note is the superior low temperature flexibility added by Eastman DBT.

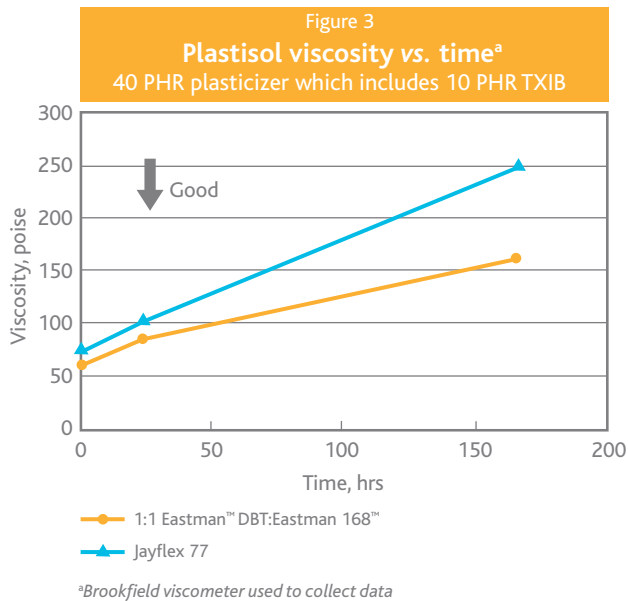
Table 1
Physical properties
70 PHR plasticizer

Example	Eastman™ DBT	DEGDB	BBP
Tensile strength, MPa	11.7	14.6	15.7
Modulus at 100% elongation, MPa	4.5	5.3	5.4
Elongation at break, %	361	401	383
Shore A hardness	53	67	56
Tear resistance, kN/M	32.9	43.1	41.0
Tear force, N	45	31	53
Specific gravity, g/cm ³	1.23	1.29	1.28
Brittleness temperature, °C	-45	-24	-28

In plasticizer blends ...

Eastman™ DBT non-phthalate plasticizer can be blended with other plasticizers to enable the user to fine tune the fusion time or other properties desired in their application.

For example, a 1:1 blend of Eastman™ DBT and Eastman 168™ non-phthalate plasticizers provides the user with a non-phthalate plasticizer system that has similar performance to Jayflex 77. Plastisols made with this non-phthalate blend exhibit lower initial and aged viscosities as shown in Figure 3.



Fusion properties are similar for a 1:1 blend of Eastman™ DBT: Eastman 168™ and Jayflex 77 as shown in Figure 4.

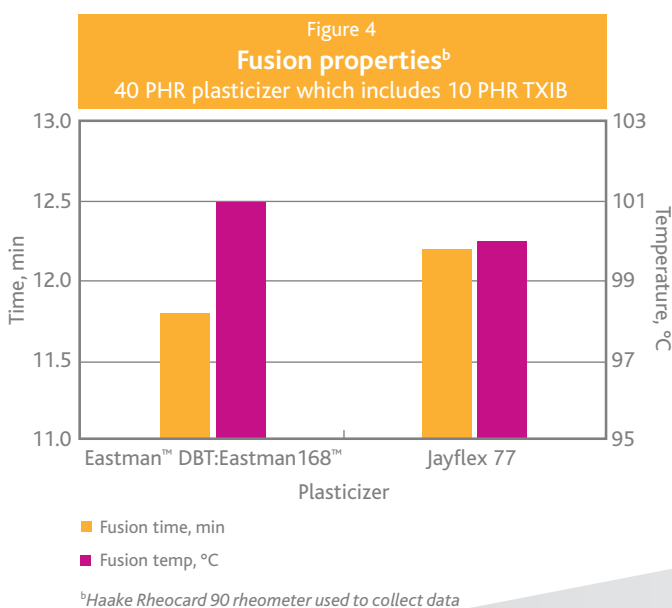


Table 2 shows that products produced with a 1:1 blend of Eastman™ DBT and Eastman 168™ non-phthalate plasticizers have physical properties similar to those produced with Jayflex 77.

Table 2
Physical properties of blends
40 PHR plasticizer which includes 10 PHR TXIB

Physical Property	1:1 Eastman™ DBT: Eastman 168™	Jayflex 77
Tensile strength, MPa	15.7	14.9
Modulus at 100% elongation, MPa	10.6	11.2
Elongation at break, %	231	200
Shore A hardness	76.6	77.7
Tear resistance, kN/M	72	68.9
Tear force, N	130	121
Brittleness temperature, °C	-6	-7

Eastman™ DBT non-phthalate plasticizer offers the plastisol producer a high-solvating, non-phthalate plasticizer that produces plastisols with lower viscosity than typical high-solvating plasticizers. The user can blend with other plasticizers to fine tune the desired performance attribute, and Eastman DBT produces products with good low-temperature properties.

To find out more about the secure supply and efficiency of Eastman™ DBT as a high-solvating non-phthalate plasticizer for PVC plastisols, call your Eastman representative today or visit www.eastmanplasticizers.com.

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