

Dry Blend Characteristics of OxyVinyls Flexible PVC Resins

OxyVinyls large-reactor technology PVC resins made for flexible applications have excellent plasticizer absorption. The absorption is extremely uniform because of the narrow particle size distribution of the resins. They can be readily blended with a wide variety of plasticizers to prepare free-flowing blends. The flexible resins include OxyVinyls™ 200, OxyVinyls™ 220, OxyVinyls™ 225, OxyVinyls™ 230, OxyVinyls™ 240 and OxyVinyls™ 250.

Dry blends have been made in the Brabender Plasticorder Sigma Head with a broad range of plasticizers in a basic formula consisting of resin and plasticizer only. The amount of plasticizer added and temperature of blending has been varied.

Graphs 1, 2, and 3 show dry blend times of phthalate plasticizers at 50, 75 and 100 parts with OxyVinyls resins. Graphs 4 and 5 show dry blend times of specialty and high-temperature plasticizers at 50 and 75 parts with OxyVinyls resins. Graphs 6 and 7 show dry blend times of polymeric plasticizers at 50, 75 and 100 parts with OxyVinyls resins. Where there is no data shown for a particular plasticizer, it indicates that plasticizer did not dry at that concentration after 15 minutes.

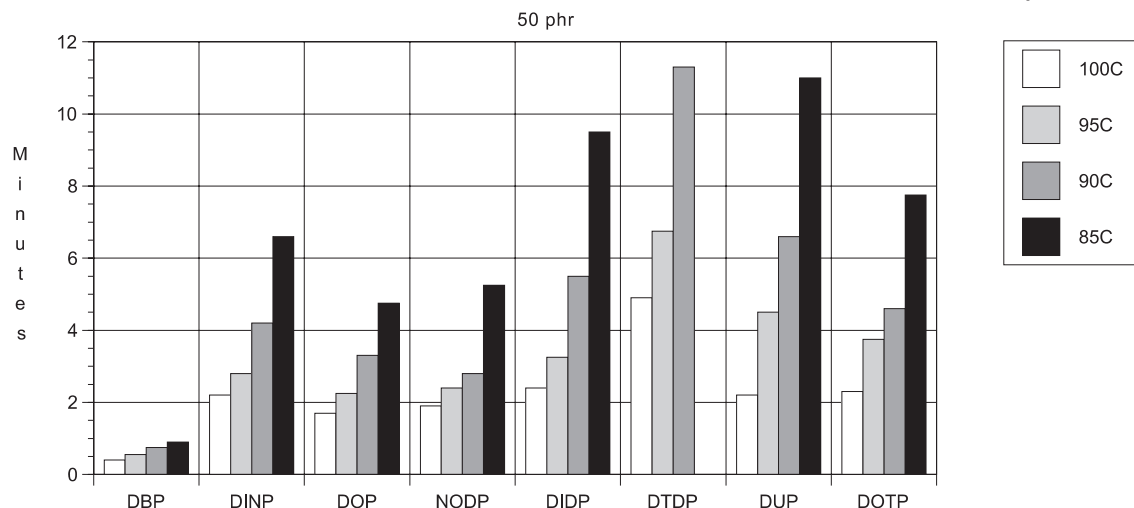
Conclusions

OxyVinyls resins dry blend well with a variety of plasticizers.

Increasing the temperature of dry blending will improve the dry blend time and the quantity of plasticizer that can be absorbed.

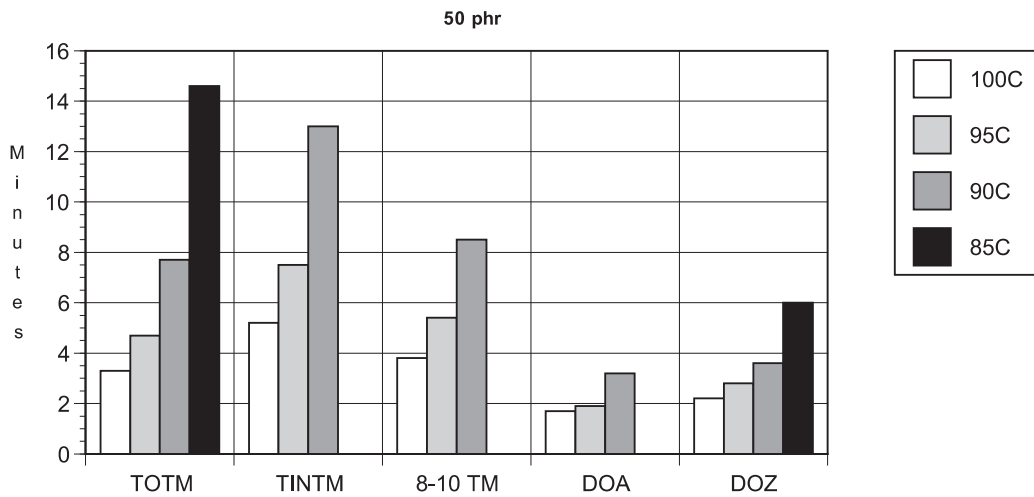
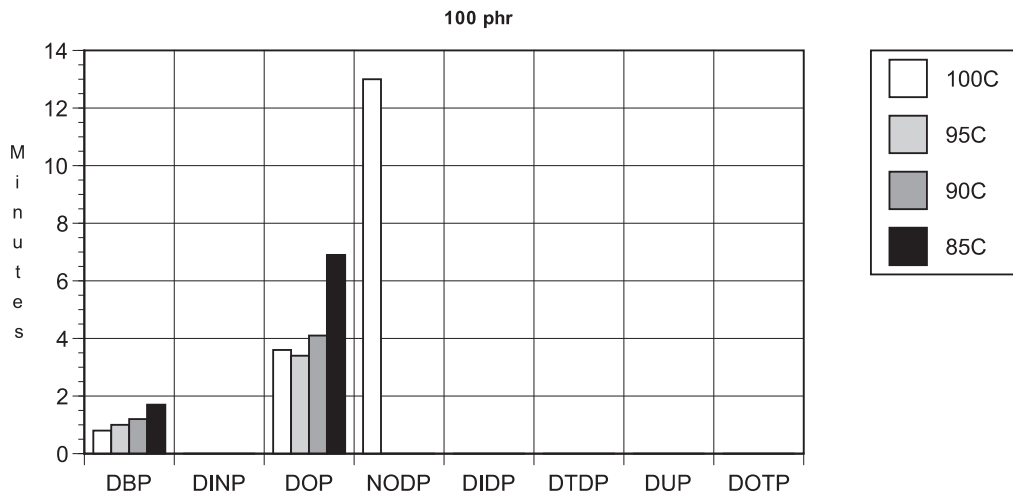
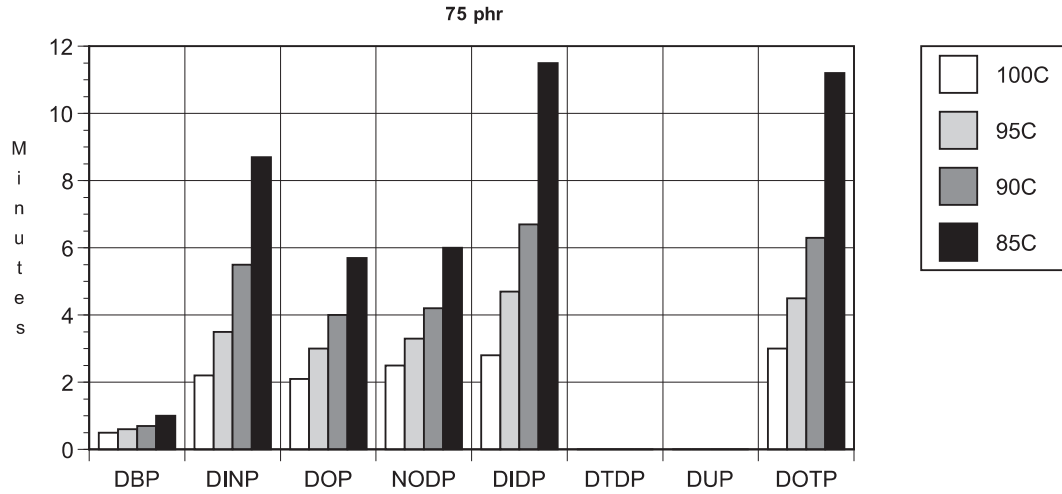
The quantity of plasticizer that can be absorbed can be improved by heating it before addition.

Graph #1

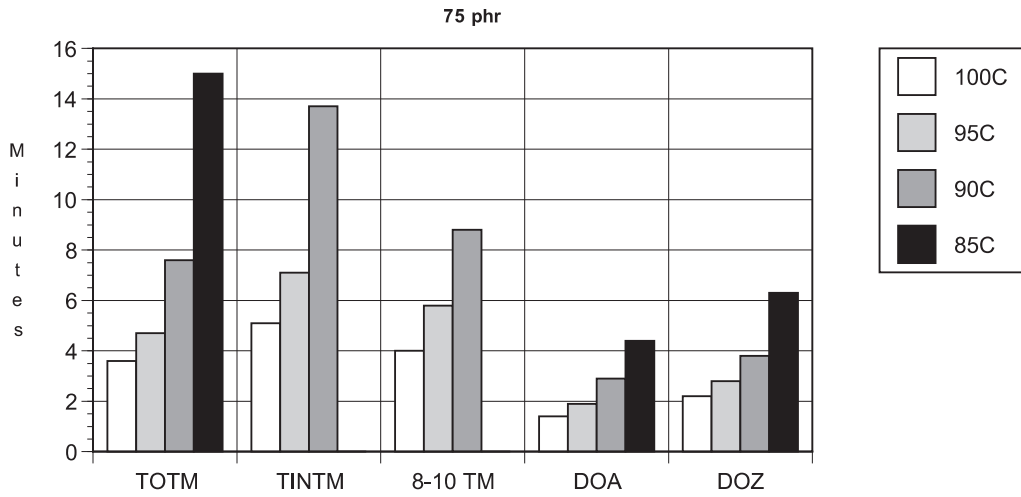


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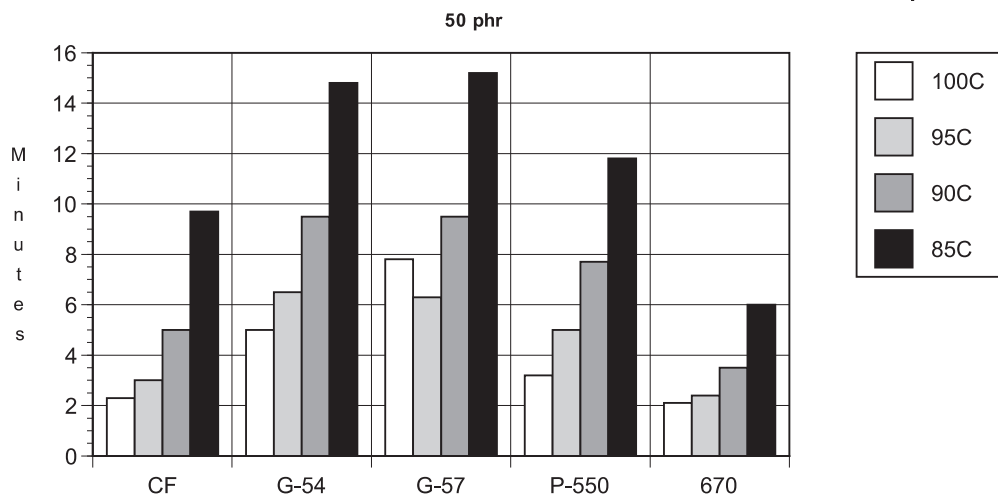
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Graph #5



Graph #6



Graph #7

