



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED

PIGMENTS DEPARTMENT

cc: R. H. Pohl
J. E. Kramer
G. H. Mattie/L. F. Andrews
P. D. Graham
M. Hunt/E. Gonick
W. S. Struve/A.A. Brizzolara-Newark
H. R. Linton - Newark
J. Jackson - Newark
W. F. Spengeman/H. B. Clark-C.R.
J. A. Lamiet/T.B. Reeve/A.F. Lewis-CR

Wilmington, Delaware
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W. S. STRUVE
PIGMENTS
NEWARK PLANT

"KROLOR" ORANGE Y YE-789-D

After reviewing Chestnut Run's closeout on NC Work Request 67-11 (issued 5/1/67), and exhibits prepared in conjunction with this work, we recommend the following:

1 - Proceed with development of "Krolor" Orange Y YE-789-D equal to SW Lot 00200 (2 passes through colloid mill). As soon as patents covering this product are filed and Research and Production agree on a method of production, we will arrange limited sampling of Semi-Works Lot. 00200 or any other material you wish to select as representative of material we will produce on a commercial scale.

2 - It is suggested Chestnut Run evaluate YE-789-D Lot 00200 in selected paint systems. (1) It would be desirable to check gloss, chemical resistance and lightfastness versus Molybdate Orange YE-421-D, and any other orange pigment now in use. Newark should issue an NC Work Request. Hopefully this material will prove satisfactory in at least on systems where YE-789-D might be used in volume.

Note(1) - Consideration might be given to a "32J", Universal Colorant, and a selected trade sale finish.

3 - Sales requests a program be started or continued to improve abrasion resistance of "Krolor" Orange R YE-777-D and "Krolor" Yellow Light Y-781-D using the colloid mill. An estimate of when such products might be available for Chestnut Run evaluation, and limited trade sampling, will help guide our promotional plans.

Sales has selected material made via dry color and colloid milling route (SW Lot 00200) even though a product made via dry color, colloid milling, homogenizing (SW Lot 01000) is slightly better in heat stability (resistance to abrasion). This decision is based on known production problems which will be encountered with a homogenizer, and the fact colloid milled material is so much better in abrasion than current YE-777. We feel most plastic compounders will be able to use YE-789-D using their conventional processes and equipment.

This does not mean we should stop working for still better materials with still higher resistance to abrasion. However, we do not want to delay release of YE-789-D or any other new "Krolor" pigment while waiting for "perfect products". Availability of a broader color range, plus the degree of improvement shown by YE-789-D SW Lot 00200, should accelerate sales of "Krolor" pigments.

R. H. ZABEL

RHZ:MW