CRAY VALLEY

SYNOLAC® 6529
Putty Resin

DESCRIPTION:

SYNOLAC® 6529 is a medium viscosity, highly reactive pre-promoted flexible polyester resin especially designed for automotive and wood filler putties.

LIQUID RESIN PROPERTIES (at 25°C)

These values are listed for a reference guide only. Particular batches may not conform exactly to the numbers listed because storage conditions, temperature changes, age, testing equipment (type and procedure) can each have a significant effect on the results. Resin with properties outside of these readings can perform acceptably. However final suitability of this product is in the end use performance.

TEST	VALUE
Appearance	Clear Yellow-Brown liquid
Viscosity	600-900 (Brookfield CPs)
Non-Volatile	64-68%
Acid Number	≤30
Gel Time[3]	4 - 6 Min.
Peak Exotherm[1]	90-110 ^{0}C
Shelf Life	90 Days

[3] Using 4% Benzoyl Peroxide Paste (50%)

Method Of Test : The test methods are as prescribed in ISO 75, 178 and 527.

SUGGESTED USES AND APPLICATIONS:

SYNOLAC® 6529 is recommended in putty formulations for automotive refinish as well as for wood filler putty for furniture industries.

STORAGE LIMITATIONS :

Uncatalysed, standard cure polyester products have a usage life of three months from date of manufacture when stored at 23°C or below in a closed, factory sealed, opaque container and out of direct sunlight. The usage life is cut in half for every 12°C over 23°C.

SHIPPING

Containers : Standard 225 Kgs. steel closed head drums or 35 Kgs. carbuoys.

CRAY VALLEY RESINS INDIA LTD.
D-43 (1) Trans Thane Creek, M.I.D.C. Industrial Area, Navi Mumbai–400 706.
Tel : 7682130/7611900 Fax : 7687998

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General guidelines for making a putty

A putty typically contains 30% resin and rest 70% a mixture of pigments, extenders and additives. The quality of a putty, particularly with respect to sandeability and adhesion, will be governed by the proper choice of extenders used. Talc is the most commonly used extender. Talc alone is however, not used alone, since it is a soft material. It is used in combination with other crystalline, hard extenders like calcium carbonate, barites etc

A general purpose putty shall typically have a ratio of talc/ other extenders -60/40 by weight, and average particle size of all the fillers is 50 micron. Dispersion as in paints is not recommended because of the possibility of serious fire hazard. Mixing the fillers using high speed disperser at low speed is commonly used method. Care needs to be taken to avoid mixer temperature to rise more than 5 degree above room temperature.

The putty also contains other additives like styrene monomer, pigments like TiO2, inorganic dyes like chrome green, and thixotropes like fumed silica. Wax is not recommended as an additive since it affects sanding properties.

The putty should be always packed in tins that are tightly closed and stored away from direct sun-light; preferably in cool place.

Typical formulation:

Resin 6529	-	31.78 gm
TiO2	-	2.00 gm
Talc(20 micron)	-	31.00 gm
Calcite/ Barites(5 micron	-	30.00 gm
Fumed silica	-	1.00 gm
styrene monomer	-	2.50 gm
Cobalt (6%)	-	0.15 gm
Soyalecithine	-	1.16gm
BYK 555	-	0.13gm
Inhibitor*	-	0.28gm
TOtal		**100.0 gm**

1. Preferably inhibitor is Toluene- HydroQuinone (THQ) ; THQ should be added in the form of solution. Always make 20% solution of THQ in ethyl acetate.
2. Slight increase in Gel Time will be adjusted by adding Tertiary Amine.

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