

67400 Paraloid™ B-72

Solid Grade Thermoplastic Acrylic Resin

Summary

Paraloid™ B-72 is an excellent general purpose acrylic resin, supplied as a 100 % solid grade or as a 15 % solution.

It can be applied in either clear or pigmented coatings by a variety of application methods and can be air-dried or baked. Paraloid™ B-72 has a very low reactivity with sensitive phosphorescent and luminescent pigments. The durability and non-yellowing characteristics also make it valuable for use with these pigments.

Paraloid™ B-72 is compatible with other film forming materials such as vinyls, cellulose, chlorinated rubbers, and silicones and can be used in combination with them to produce coatings with a wide variety of characteristics.

Paraloid™ B-72 is very resistant against water, alkalis, acids, oils and chemical fumes. The coverings are very elastic and adhere on many different surfaces, e.g. also on light metals.

Paraloid™ B-72 is unique in possessing a high tolerance for ethanol. The property allows its use in applications in which strong solvents cannot be tolerated. The alcohol dispersions may be cloudy or milky; however, clear, coherent films are formed.

Melting Point

Paraloid™ B-72 is an acrylic resin with a high molar mass, thus, it doesn't have a defined melting point. It starts to melt at 70 - 75°C; the flowing point is at 145 - 150°C. TG: 40°C

Physical Properties

(Not to be used as specifications)

Physical form	Pellets
Bulk density, 25°C, lb/gal	9.6
Solubility parameter	9.3
Transition temperature, T _g , °C	40
Ultimate hardness of clear films, KHN	10 to 11
Chemical composition	EMA Copolymer

Solubility of PARALOID™ -Acrylic Thermoplastic Resins

(Values given are Viscosity, cps, at 25°C of a 40% solids solution, except as noted)

Solvents	PARALOID™ Types				
	B-44 No. 67460	B-66 No. 67480	B-67 No. 67420	B-72 No. 67400	B-82 No. 67440
Alkohols					
2B Alcohol	- ^c	- ^c	- ^c	Dc	PScd
Isopropanol	-	-	2 800	-	-
n-Butanol	-	94 ^e	2 500	130 ^e	-
Isobutanol	-	5 600 ^{fg}	3 200	-	-
n-Amyl alcohol	-	-	3 200	-	-
Diacetone alcohol	10 000	6 200	2 300	3 500	3 000
Chlorinated Hydrocarbons					
Methylene chloride	2 700	850	520	960	1 200
Carbon tetrachloride	860 ^g	280 ^e	20 000	280 ^e	6 000 ^f
Ethylene dichloride	5 500	1 200	640	1 300	1 800
Trichloroethylene	12 000	7 200	2 100	4 800	3 400
Esters					
Ethyl acetate	1 800	940	240	500	610
n-Propyl acetate	1 800	570	180	550 ^g	580
n-Butyl acetate	2 600	875	250	700	630
Isobutyl acetate	3 100	960	240	660 ^g	700
Amyl acetate	5 600	1 110	320	850	980
1-Ethyl hexyl acetate	-	6 900	770	-	-
Ethers					
Dioxane	5 600	880	830	1 300	1 700

c. Code for used letters: - = Insoluble; D = Dispersed; PS = Partially soluble

d. Results when using pure 2B alcohol. Paraloid™ B-82 is soluble in different alcohol/water-mixtures.

e. Viscosity determined at 20 % solids.

f. Viscosity determined at 30 % solids.

g. Hazy solution.

Bewaar deze gebruiksaanwijzing goed en bewaar deze bij uw product. Voordat u het flesje paraloid opent hoort u deze gebruiksaanwijzing te hebben doorgenomen voor uw eigen veiligheid.

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