

Matt Hardener XG665

I Description

Matt Hardener XG665 can be used in HAA or TGIC powder coatings system and gives good flow with low level gloss. It helps to obtain a very low gloss in carboxylic polyester powder coatings. In HAA system, the gloss level is less than 5% @ 60 angle, and in TGIC system, it's less than 20%.

II Technical data

XG665	Test Method	Specification
Appearance	Visualization	White powder
Epoxy Equivalent per Weight	GB/T 4612-2008	450~600 g/eq
Particle Size	GB/T 4507-1999	125~160 $^{\circ}$ C
Solid Content	GB/T 1725-2008	98.5%min

III Application:

- Usu. in the formulation XG665 reacts with 70% polyester and T105 or TGIC reacts with the left 30% polyester. Adjust ratio of XG665 and curing agent T105/TGIC can help to adjust gloss level.
- Matt effect is related to polyester chosen. Lab test is strongly recommended & necessary.
- Add some cyclic amidine catalyst (such as JG803A) can help improve impact property.
- Baking Condition: HAA - 180~200 $^{\circ}$ C/30~15min, TGIC - 200 $^{\circ}$ C/20min.
Extruding temperature: 115~125 $^{\circ}$ C.

IV Recommended Formula

S.N	RM		Supplier	F1	F2	F3	F4	F5	
1	CC7630	Polyester Resin	Cytec	240	-	-	240	-	
2	P847	Polyester Resin	DSM	-	240	-	-	240	
3	P9336	Polyester Resin	Sino-French	-	-	240	-	-	
4	T105	Curing Agent	SSC	5	5	-	3.5	3.5	
5	TGIC	Curing Agent	NiuTang	-	-	5	-	-	
6	XG665	Matt Hardener	SSC	60	60	60	60	60	
7	GLP588	Leveling Agent	SSC	5	5	5	5	5	
8	Benzoin	Degassing Agent	SSC	2	2	2	2	2	
9	NTR760	TiO ₂	Pigment	120	120	120	-	-	
10	C	Carbon Black	Pigment	-	-	-	3	3	
11	W-44HB	BaSO ₄	Filler	68	68	68	186.5	186.5	
Total				500	500	500	500	500	
Gloss				60 $^{\circ}$	5.0%	4.7%	4.5%	4.1%	3.5%
Film Thickness,				μ m	60-80	60-80	60-80	60-80	60-80
Impact(Direct/Reverse)				kg.cm	50	50	50	50	50

*Baking Condition: 200 $^{\circ}$ C/15min; Extruding temperature: 105~115 $^{\circ}$ C.

V Package, Storage & Handling

Available in polyethylene-lined, multi-ply paper bags, N.W.25KGS/Bag.
Keep in the cool and dry place, keep away from fire.

