



**ALL TESTING REPORT  
(Product testing)**

Doc no

F/S F/PRS-PLT/23

Rev.

02

Date

02.11.21

COMPONENT NAME :- ① Assly Air Deflectors (BF 211372), ② Assly strap front (BF-17223)  
③ Assembly Air deflector strcky (BF-211379) ④ Bracket plate (BF 211603)

POWDER TYPE :- satin black powder

PROCESS :- PT + powder coating

DATE :

Sr. No.	PARAMETER	TEST METHOD / INSTRUMENT/ STANDARD	SPECIFICATION	OBSERVATION
1	DFT	DFT meter	Min. 50 micron	59,62,64 etc
2	COLOUR/SHADE	Observe in day light or equivalent at 35 deg. as per ASTM D-1729-82	colour or shade to match with the approved shade panel visually	close match with stel
3	GLOSS	Multi angle Specular Gloss meter at 20 deg. for Gloss > 70 and at 60 deg for gloss 10 to 70. Test as per ASTM D-523-80	To match with the minimum specified value on approved shade panel	58,59
4	PENCIL HARDNESS OF DRY FILM	Fixed pressure 750 gms and pencil at 45 deg. angle. Push forward for 6 to 12 mm. Test as forward for 6 to 12 mm. Test as per ASTM D 3363-74	No scratch on the test surface (Minimum H)	'2H' Passes
5	ADHESION ON SURFACE	Make lattice pattern in the film at 2 mm spacing 6 cuts. Apply Permacel tape (P 254) and pull As specified for GRADES	Minimum 22/25 squares to be intact	25/25 Passes
6	FLEXIBILITY (Pannel)	Use 0.5 to 0.8 mm thick panels, bend at 180 deg. on conical mandrel (6.25 to 38.1 mm). Observe at 10X magnification. Test as per ASTM D 522-60	No cracking, flaking or other damage on convex surface	No cracking flaking Passes
7	IMPACT (Pannel)	Use DU PONT Type impact tester, with 0.8 to 1 mm thick panel. Drop weight 2.25 kg, from 62 cm height	No cracking, flaking or other damage on concave surface	No cracking flaking Passes
8	HUMIDITY TEST	95 to 100%RH at 42 to 48 degC. Use distilled / DM water. Sample to be examined after 1/2 hr. Test as per IS:101-1964 Cl. 18.	No rust, no blisters and no adhesion failure	Pass upto 168 hrs
9	WATER IMMERSION TEST ( Pannel )	Partial immersion in distilled /DM water at ambient temp. for 48 hrs. Examine the sample after 15 min. of removal from water. Test as per ASTM D 870-54.	Coating shall not show any deterioration and should retain 60% gloss	No deterioration Passes
10	CORROSION TEST (Pannel)	Test at 35 +/- 1°C with 5% NaCl in distilled / DM water. Panels to be placed at 15 to 30 deg. to vertical. Fog collection 1-2 ml/hr. Tested sample to be cleaned, dried and checked within 1/2 hr. Use paint film remover like adhesive tape to evaluate. Test as per ASTM B117 & ASTM D1654	Creepage along X mark to be 3 mm max. on either side. No rust, no blister & no adhesion failure beyond 3 mm from X mark	Passes upto 400 hrs
11	RESISTANCE TO GASOLINE	partial immersion in petrol + 10% Ethanol at ambient temp. for 15 min. Examine the sample after 30 min. of removal Test as per IS:101-1964 Cl.-21	No blisters, wrinkles, film softening or adhesion loss	No blisters, wrinkles Passes
12	RESISTANCE TO OIL	Partial immersion in engine oil type depending on model (oils like 20W40 or 20W50) at 50C temp. for 2 hrs. Wipe and examine the sample after 30 min. Test as per IS:101-64 Cl.19	No staining, dulling, peeling, blistering, softening or discoloration	No staining, dulling Passes
13	RESISTANCE TO ACID	Partial immersion in specified conc. Of H2SO4 at ambient temp. for specified no. of hrs. Examine the sample after 30 min. of test. Ref.: JIS K 5400-75.	No staining, dulling, peeling, blistering, softening or discoloration (Conc. 0.1N H2SO4 .Dip for 12 hrs)	No staining, dulling, peeling Passes
14	RESISTANCE TO ALKALI	Partial immersion in 0.1N NaOH at ambient temp. for specified no. of hrs. Examine the sample after 30 min. of test. Ref.: JIS K 5400-75	No staining, dulling, peeling, Blistering, softening or discoloration (Conc. 0.1N NaoH dip for 12 hrs)	No staining, dulling Passes

Level	Frequency	Name	SIGN
L-1-	M	A.S.P	  
L-2-	M	P.R.U.	
L-3-	M	S.T.T.	