



HSINSOU NYPAS

A Permanent Anti-Static Agent for Styrene Resins

HSINSOU NYPAS mainly provide ABS and HIPS or other styrene resins the character of permanent anti-static property .Its chemical structure composed of hydrophilic and hydrophobic segments ,In order to keep the mechanical property of each styrene and cause permanent anti –static character by its hydrophilic segments .

1. Typical Properties

	Values	Remarks
Appearance	Pale yellow Pellet	
Melt flow rate	0.98 / 10 min	10 min. ASTM D 1238 (190 °C , 21.18 N)
Surface resistivity	$10^6 \sim 10^7 \Omega$	ASTM D257 ,25 °C , RH 55%
Thermal degradation Temperature (Nitrogen)	289 °C	Start to degradation

PS. The lowest temperature at which HSINSOU NYPAS begins thermally to degrade.
(measured under air atmosphere with a thermal gravimeter)

2. Character

1. Causing the permanent anti-static property to styrene resins
2. Injected parts will still show original anti-static abilities after many times water washing as per suitable process to compound styrene resins with HSINSOU NYPAS in proper ratio ,HSINSOU NYPAS gives the styrene resins a permanent

antistatic property.

3. Slightly influences to mechanical property of styrene resins .
4. Superior heat stable ability ,thus less influences to styrene resins in heat applications .
5. Suitable for I C relative products and other easily hurting of sensitive in static environment .

3. Application Method

1). General procedure

As shown in figure 1 .HSINSOU NYPAS and styrene resin are recommend process as following : . Pigment may be added as necessary during the dry-blending process or the kneading process

dry-blended using a blender , such as tumble , and are kneaded and pelletized using a twin screw extruder.

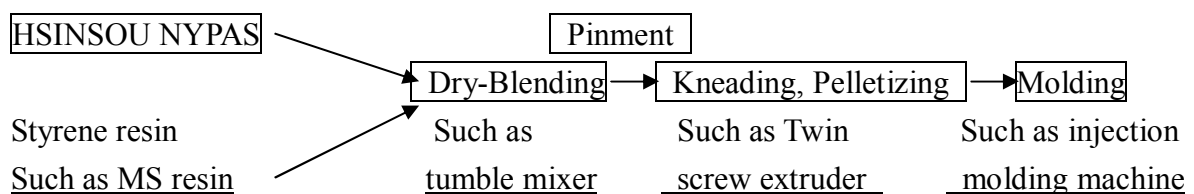


Figure 1. General procedure for application of PLEASTAT NC 7530

2.Amount to be Applied

- ABS : As per previous process , 20 % NYPAS to be added
HIPS : As per previous process , 15 % NYPAS to be added

3. Kneading Conditions

1. Use a high share rate kneader ,such as a twin screw extruder .
2. Standard kneading temperature is between 160 °C ~ 170 °C , Determine the kneading temperature according to the resin applied .
3. The Highest process Temperature for each different facility are around 200 °C~210

°C .As lower as possible while process NYPAS into extruder ,recommend process in between 150 °C to 170 °C .

4. Other resin undetermined need to have more confirmation
5. Drying of HSINSOU NYPAS

4. Drying

HSINSOU NYPAS has some hygroscopic character , but is packed in bags under moisture proof conditions ; no drying is necessary when used just after unsealing . If HSINSOU NYPAS is kept open for a long time (about 72 hours) , after unsealing , drying is necessary

5. Performance Tests

With refer to the extended test of ABS and HIPS , it show the absolutely superior permanent anti-static property ,to other low molecule weight of anti-static materials .

NOTE :

Before handling this material,.please refer to the guide brochure , Further more technical request , please contact to Hsinsou Technical Department .