



TEST REPORT

No. : GZMR120303582

Date : Apr. 10, 2012

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UNIT 907, SOUTH TOWER, POLY INTERNATIONAL PLAZA, HAIZHU DISTRICT, GUANGZHOU

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : HIGH INORGANIC POWDER FILLED ENVIRONMENT-FRIENDLY MATERIALS
 SGS Ref No. : GP120300268-8.1
 Test Performed : Selected test(s) as requested by applicant
 Date of Receipt : Mar, 02, 2012
 Test Period : Mar, 02, 2012 to Mar. 30, 2012

Test result(s) : Please refer to the following page(s)

*****To be continued*****

Signed for and on behalf of
SGS-CSTC Ltd.

Cathy Peng
Technical Supervisor

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GZMR 0149560

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Test Information:

Sample description: See photo

No.	Test item	Test method	Test condition	Result	
1	Xenon-arc Exposure	With reference to GB/T 20197-2006, GB/T 16422.2-1999, ISO 105-A02:1993 Cor2:2005 and client's requirement	Test cycle: GB/T 16422.2-1999 method A Irradiance: 0.50W/(m ² ·nm)@340nm 102 min light at (65±5)°C BST, (65±5)% RH 18 min light and water spray Filter: Daylight Exposure period: 120h	Grey scale	4-5 (see note 1,2)
2	Elongation at break	With reference to GB/T 20197-2006 and GB 13022-91	Specimen: Type I Specimen thickness: 0.036mm Testing speed: 50mm/min Grip separation: 40mm	X direction	(see table 1)
				Y direction	(see table 1)

Table 1

No.		1	2	3	4	5	6	7	8	9	10
Elongation at break, %	X direction	70	88	193	393	328	123	184	356	62	398
	Y direction	243	192	160	255	170	275	155	165	281	314

Note: 1. According to ISO 105-A02, the grey scale was determined under the D65 standard light, scale 5 is the best and scale 1 is the worst.

2. The specimens had easy ruptured after 120h Xenon-arc Exposure, and cannot do the tension test.

3. Test specimens were cut from the sample.

*****To be continued*****

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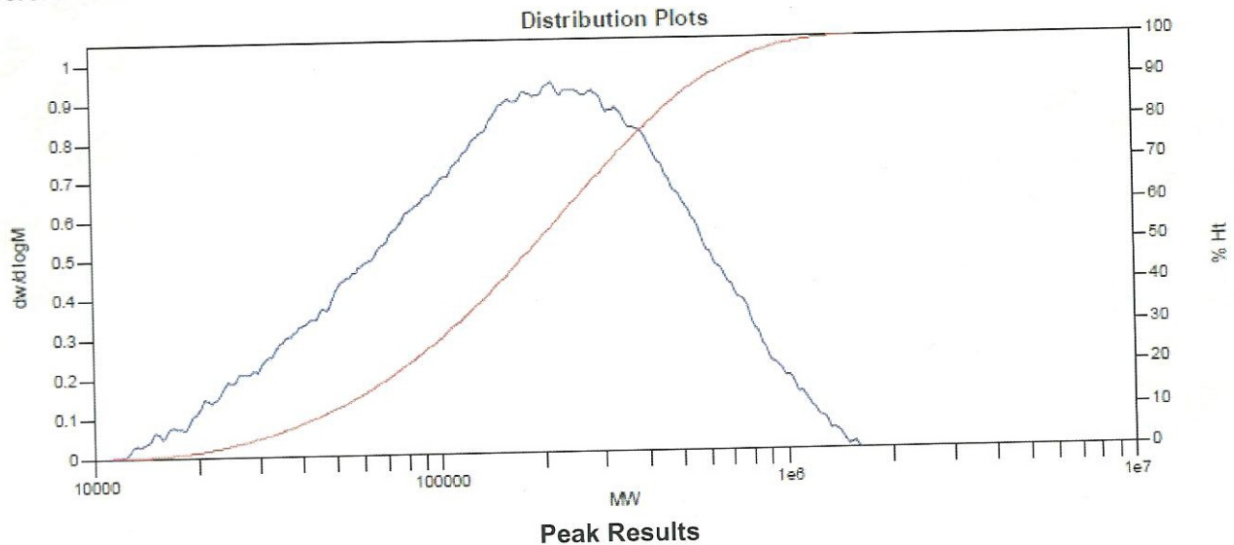
3. Molecular weight & molecular weight distribution

Test method: High temperature gel permeation chromatography

Test result:

-	Mp	Mn	Mw	Mz	Mz+1	Mv	Polydispersity
Before test	213702	109013	260242	472179	674235	233320	2.38726
After test	55898	18593	83604	245126	467339	68714	4.49653
Change rate	Decrease rate of Weight average relative molecular mass: 67.874% (See note 1)						
	The percentage of the relative molecular weight after test less than 10000: 16.053%						

Before test:



*****To be continued*****

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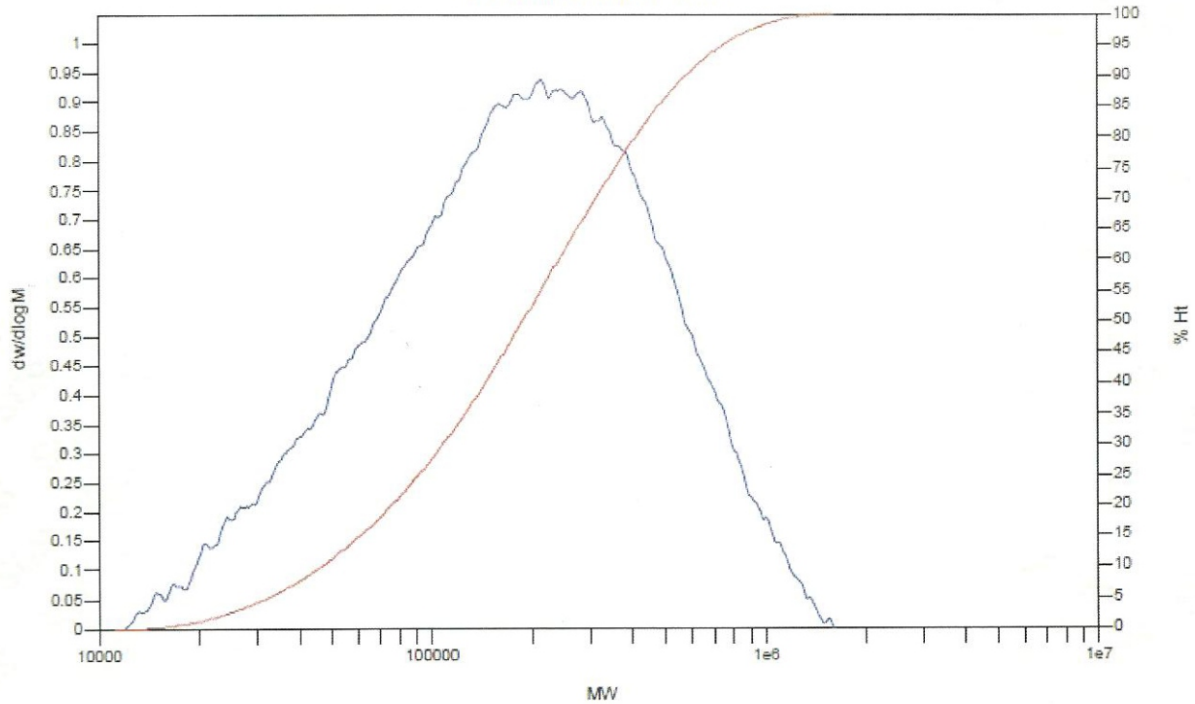
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Distribution Plots



*****To be continued*****

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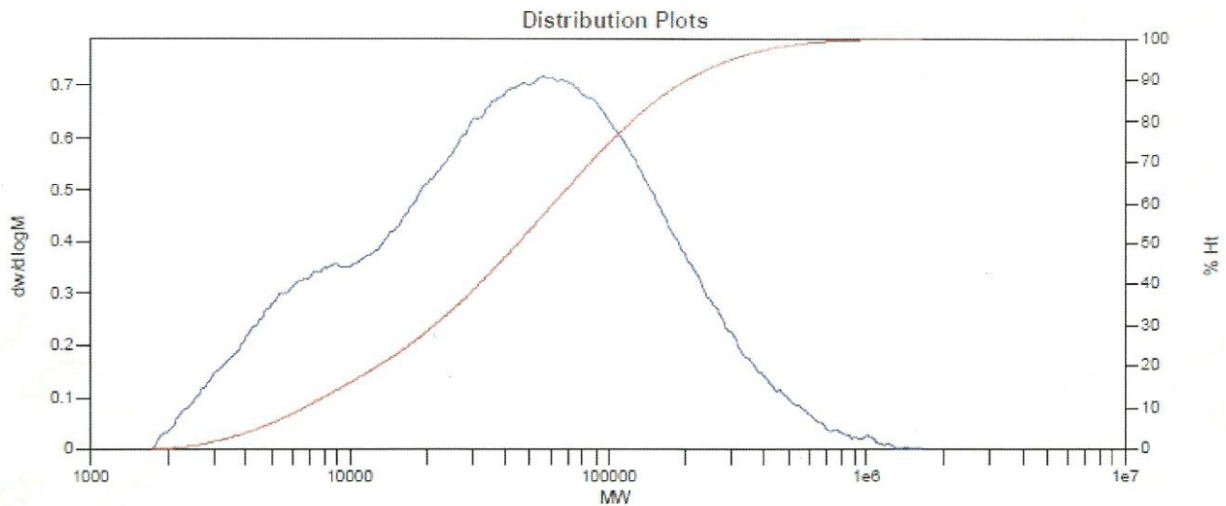
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After test:



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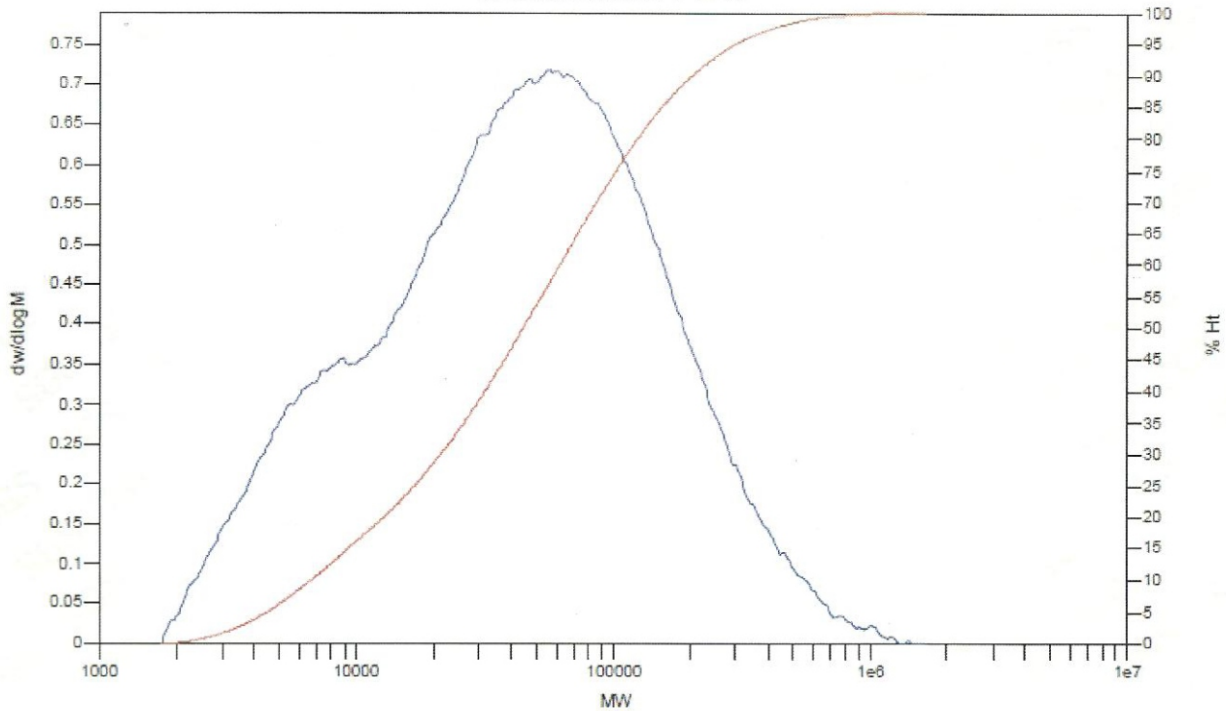
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Distribution Plots



Note:

1. Decrease rate = $\frac{[Mw(\text{before test}) - Mw(\text{after test})]}{Mw(\text{before test})} \times 100\%$
2. The test item 3 has been subcontracted to the accredited laboratory.

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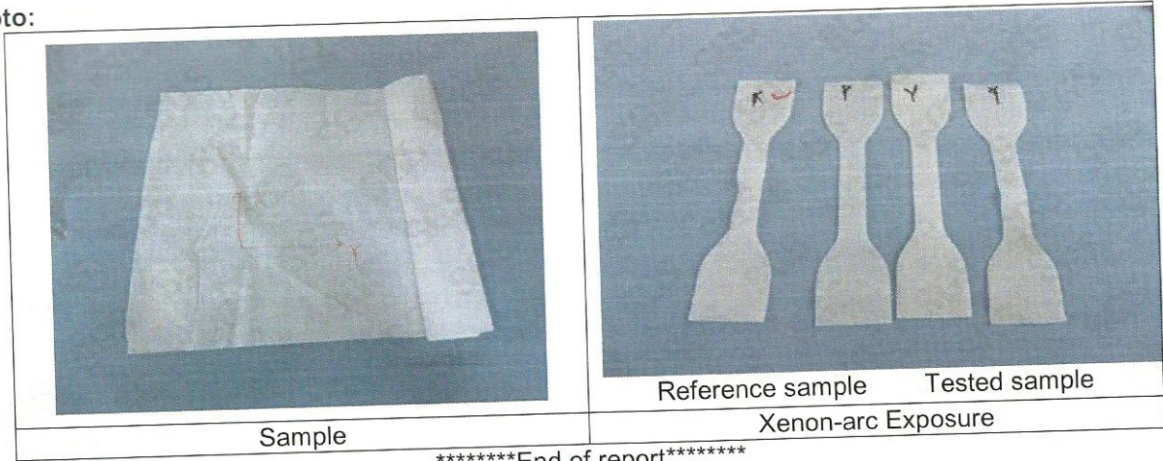
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Photo:



*****End of report*****

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