

OREN HYDROCARBONS (QINGDAO) CO., LTD

奥仁碳氢化合物（青岛）有限公司

Certificate of Analysis

Product Name: **PHPA Powder**

Lot No.: O13615

Date of Test: 2013-6-15

| Item | Standard | | Result |
|-----------------------------------|-------------------------------|----------------------|-----------------|
| Appearance | Granular powder | | Granular powder |
| Molecular Weight (ten thousand) | ultra high molecular weight | high molecular weigh | |
| | ≥1200 | 1200 | 1200 |
| Solid Content (%) | ≥95 | ≥92.5 | 93.00 |
| degree of hydrolysis (%) | 29-35 | 25-29 | 30 |
| filtration ratio | ≤3 | ≤1.3 | 1.2 |
| apparent viscosity (mpa.s) | ≥5 | ≥4 | 5.2 |
| dissolution velocity (hour) | ≤2 | ≤2 | 2 |
| granularity | < 0.15mm particle Content ≤5% | | |
| | < 1.0mm particle Content ≤5% | | |

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