

OREVAC[®] 18350P

Maleic anhydride grafted polyethylene

Description

OREVAC 18350P is a maleic anhydride grafted polyethylene used in the manufacturing of three layer MDPE or HDPE coating for steel pipeline. It is a powder product.

Main applications

OREVAC 18350P is mainly used in pipe coating to have good adhesion performances between an epoxy primer and LACQTENE 2006PBK35 from Total Petrochemicals.

OREVAC 18350P combined with MDPE or HDPE and a proper epoxy fulfil the requirement of different application standards such as NFA 49-710 or DIN 30670 when applied in the rules of art.

Typical characteristics

| Characteristics | Value | Unit | Test Method |
|------------------------------|-------|--------|-------------|
| Melt index (190°C / 2,16 kg) | 3.8 | g/10mn | ISO 1133 |
| Melting Point | 126 | °C | DSC |
| Vicat softening point (1 kg) | 107 | °C | ISO 306 |
| Density | 0.931 | - | ISO 1183 |

Physical characteristics

| Characteristics | Value | Unit | Test Method |
|------------------------------------|------------------|---------|-------------|
| Strength at yield ⁽¹⁾ | 12.4 | MPa | ISO R 527-2 |
| Elongation at break ⁽¹⁾ | >600 | % | ISO R 527-2 |
| Hardness shore D | 53 | At t=0s | ISO 608 |
| Sieve analysis: | >400µm : <28% | | |
| | 400-315µm : <25% | | |
| | 315-125µm : <65% | | |
| | <125µm : <10% | | |

⁽¹⁾ Measurement done on samples prepared from compressed molded sheet (speed test 10mm/min.)

Processing

OREVAC 18350P is transformed and applied by powder sintering, or gun spray projection. Extrusion condition depends on the equipments and on the line configuration.

Security / Precautions of use

OREVAC 18350P must be stocked in dry conditions below than 50°C and protected from UV rays. Improper storage conditions can cause degradation and have consequences on the physical properties of the product.

Shell life is 2 year from the production date.

A safety data sheet is available close to your correspondent ARKEMA or on the site www.arkemagroup.com under heading FDS.

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