

# ALCUDIA® EVA PA-411

Ethylene Vinyl Acetate Copolymer  
REPSOL

Message:

EVA resin ALCUDIA® PA-411 is recommended for low viscosity hot melt adhesives applications and blends with paraffins and microcrystalline waxes. It contains antioxidant and free flowing agent.

TYPICAL APPLICATIONS

- Hot Melt Adhesives
- Packaging
- Bookbinding
- Blends with waxes
- Coatings of paper and board

Recommended melt temperature below 200°C to avoid the decomposition of the polymer. Processing conditions should be optimised for each production line.

| General Information                       |                                     |                   |             |
|---|-------------------------------------|-------------------|-------------|
| Additive                                  | Antioxidant                         |                   |             |
|   | Free Flowing Agent                  |                   |             |
| Features                                  | Antioxidant                         |                   |             |
|   | Food Contact Acceptable             |                   |             |
|   | Low Viscosity                       |                   |             |
| Uses                                      | Adhesives                           |                   |             |
|   | Blending                            |                   |             |
|   | Coating Applications                |                   |             |
|   | Packaging                           |                   |             |
|   | Paper Coatings                      |                   |             |
| Agency Ratings                            | EU Food Contact, Unspecified Rating |                   |             |
| Processing Method                         | Coating                             |                   |             |
| Physical                                  | Nominal Value                       | Unit              | Test Method |
| Density (23°C)                            | 0.937                               | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 500                                 | g/10 min          | ISO 1133    |
| Vinyl Acetate Content                     | 18.0                                | wt%               |             |
| Hardness                                  | Nominal Value                       | Unit              | Test Method |
| Shore Hardness                            |                                     |                   | ISO 868     |
| Shore A                                   | 84                                  |                   |             |
| Shore D                                   | 32                                  |                   |             |
| Mechanical                                | Nominal Value                       | Unit              | Test Method |
| Tensile Stress (Break)                    | 5.00                                | MPa               | ISO 527-2   |
| Tensile Strain (Break)                    | 600                                 | %                 | ISO 527-2   |

| Thermal                           | Nominal Value | Unit | Test Method     |
|-----------------------------------|---------------|------|-----------------|
| Vicat Softening Temperature       | 53.0          | °C   | ISO 306/A       |
| Ring and Ball Softening Point     | 89            | °C   | ASTM E28        |
| Brookfield Viscosity <sup>1</sup> |               |      | Internal Method |
| 180°C                             | 23.8          | Pa·s |                 |
| 200°C                             | 15.0          | Pa·s |                 |

#### NOTE

1. Spindle SC4-27

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

