

# MAJORIS AFR081

Polypropylene Copolymer

AD majoris

## Message:

AFR081 is a low halogen flame retardant compound UL 94 V2, intended for extrusion and profiles. The product is available in natural but other colours can be provided on request  
AFR081 produce very low level of toxicity and low smoke density in the case of a fire.  
AFR081 is especially designed for non-pressure pipe and thin-walled corrugated pipes.

| General Information                       |                     |                   |              |
|-------------------------------------------|---------------------|-------------------|--------------|
| Additive                                  | Flame Retardant     |                   |              |
| Features                                  | Copolymer           |                   |              |
|                                           | Flame Retardant     |                   |              |
|                                           | Low Halogen Content |                   |              |
|                                           | Low Smoke Emission  |                   |              |
|                                           | Low Toxicity        |                   |              |
|                                           | Recyclable Material |                   |              |
| Uses                                      | Corrugated Pipe     |                   |              |
|                                           | Piping              |                   |              |
|                                           | Profiles            |                   |              |
| Appearance                                | Colors Available    |                   |              |
|                                           | Natural Color       |                   |              |
| Forms                                     | Pellets             |                   |              |
| Processing Method                         | Extrusion           |                   |              |
|                                           | Pipe Extrusion      |                   |              |
|                                           | Profile Extrusion   |                   |              |
| Physical                                  | Nominal Value       | Unit              | Test Method  |
| Density                                   | 0.920               | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 0.80                | g/10 min          | ISO 1133     |
| Mechanical                                | Nominal Value       | Unit              | Test Method  |
| Tensile Stress (Yield)                    | 24.0                | MPa               | ISO 527-2/50 |
| Tensile Strain (Yield)                    | 7.0                 | %                 | ISO 527-2/50 |
| Flexural Modulus <sup>1</sup>             | 950                 | MPa               | ISO 178      |
| Impact                                    | Nominal Value       | Unit              | Test Method  |
| Charpy Notched Impact Strength            |                     |                   | ISO 179/1eA  |
| -20°C                                     | 4.5                 | kJ/m <sup>2</sup> |              |

| 23°C                                               | 61            | kJ/m <sup>2</sup> |                |
|----------------------------------------------------|---------------|-------------------|----------------|
| Thermal                                            | Nominal Value | Unit              | Test Method    |
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 85.0          | °C                | ISO 75-2/B     |
| Flammability                                       | Nominal Value | Unit              | Test Method    |
| Flame Rating (3.20 mm)                             | V-2           |                   | UL 94          |
| Glow Wire Flammability Index (2.00 mm)             | 960           | °C                | IEC 60695-2-12 |
| Extrusion                                          | Nominal Value | Unit              |                |
| Cylinder Zone 1 Temp.                              | 180           | °C                |                |
| Cylinder Zone 2 Temp.                              | 190           | °C                |                |
| Cylinder Zone 3 Temp.                              | 200           | °C                |                |
| Cylinder Zone 4 Temp.                              | 210           | °C                |                |
| Melt Temperature                                   | 210 to 220    | °C                |                |
| Head Temperature                                   | 210           | °C                |                |
| Die Temperature                                    | 210           | °C                |                |
| NOTE                                               |               |                   |                |
| 1.                                                 | 2.0 mm/min    |                   |                |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

## 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



WECHAT