

Kynar Flex® 2850 Black

Polyvinylidene Fluoride

Arkema

Message:

KYNAR FLEX® 2850 BLACK is a pelletized, semi-crystalline VF2 based copolymer which is pigmented black.

KYNAR FLEX® 2850 BLACK is easily processed by extrusion and has excellent physical, mechanical, and thermal characteristics. KYNAR FLEX® 2850 BLACK contains a black pigment which is registered under the code of federal regulations for use in contact with food.

ADDITIONAL CHARACTERISTICS:

- Excellent thermal stability
- Excellent abrasion resistance
- Excellent chemical resistance
- Impervious to UV degradation

| General Information | | | |
|--|--------------------------|-------------------|-------------|
| Features | Food Contact Acceptable | | |
| | Good Abrasion Resistance | | |
| | Good Chemical Resistance | | |
| | Good Processability | | |
| | Good Thermal Stability | | |
| | Good UV Resistance | | |
| | Semi Crystalline | | |
| Appearance | Black | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.77 to 1.80 | g/cm ³ | ASTM D792 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D, 23°C) | 70 to 75 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield, 23°C | 31.0 to 41.4 | MPa | |
| Break, 23°C | 27.6 to 48.3 | MPa | |
| Tensile Elongation (Break, 23°C) | 30 to 200 | % | ASTM D638 |
| Flexural Modulus (23°C) | 1030 to 1240 | MPa | ASTM D790 |
| Flexural Strength (23°C) | 20.7 to 34.5 | MPa | ASTM D790 |
| Compressive Strength (23°C) | 41.4 to 58.6 | MPa | ASTM D695 |
| Thermal | Nominal Value | Unit | Test Method |
| Peak Melting Temperature | 155 to 160 | °C | ASTM D3418 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity ¹ (20°C) | 2.0E+14 | ohms · cm | ASTM D257 |
| Fill Analysis | Nominal Value | Unit | Test Method |

| | | | |
|--|--------------|------|------------|
| Melt Viscosity (232°C, 100 sec ⁻¹) | 1600 to 2800 | Pa·s | ASTM D3835 |
| NOTE | | | |

1. 65% R.H.

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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

