

# Kynar Flex® 3030-15

Polyvinylidene Fluoride

Arkema

## Message:

KKYNAR FLEX ® 3030-15 is a copolymer of vinylidene fluoride and hexafluoropropylene specifically designed for flexible plenum cables and tubing. Its main characteristics are:

Very high flexibility

High melting point

Excellent Low temperature impact resistance

| General Information                    |                                   |                   |             |
|----------------------------------------|-----------------------------------|-------------------|-------------|
| Features                               | High Flexibility                  |                   |             |
|                                        | Copolymer                         |                   |             |
|                                        | Low temperature impact resistance |                   |             |
| Uses                                   | Wire and cable applications       |                   |             |
|                                        | Pipe fittings                     |                   |             |
| Forms                                  | Particle                          |                   |             |
| Physical                               | Nominal Value                     | Unit              | Test Method |
| Specific Gravity <sup>1</sup>          | 1.78 - 1.82                       | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                               | Nominal Value                     | Unit              | Test Method |
| Durometer Hardness (Shore D, 23°C)     | 48 - 55                           |                   | ASTM D2240  |
| Mechanical                             | Nominal Value                     | Unit              | Test Method |
| Tensile Strength                       |                                   |                   | ASTM D638   |
| Yield, 23°C                            | 10.3 - 13.8                       | MPa               | ASTM D638   |
| Fracture, 23°C                         | 15.2 - 20.7                       | MPa               | ASTM D638   |
| Tensile Elongation                     |                                   |                   | ASTM D638   |
| Yield, 23°C                            | 25 - 35                           | %                 | ASTM D638   |
| Fracture, 23°C                         | > 500                             | %                 | ASTM D638   |
| Flexural Modulus (23°C)                | 172 - 276                         | MPa               | ASTM D790   |
| Impact                                 | Nominal Value                     | Unit              | Test Method |
| Notched Izod Impact (23°C)             | No Break                          |                   | ASTM D256   |
| Thermal                                | Nominal Value                     | Unit              | Test Method |
| Glass Transition Temperature           | -40.0                             | °C                | ASTM D7028  |
| Peak Melting Temperature               | 160 - 168                         | °C                | ASTM D3418  |
| Electrical                             | Nominal Value                     | Unit              | Test Method |
| Volume Resistivity <sup>2</sup> (20°C) | 2.0E+14                           | ohms · cm         | ASTM D257   |
| Flammability                           | Nominal Value                     | Unit              | Test Method |
| Oxygen Index                           | > 90                              | %                 | ASTM D2863  |
| Fill Analysis                          | Nominal Value                     | Unit              | Test Method |

|                                                |                   |      |            |
|------------------------------------------------|-------------------|------|------------|
| Melt Viscosity (232°C, 100 sec <sup>-1</sup> ) | 700 - 1300        | Pa·s | ASTM D3835 |
| NOTE                                           |                   |      |            |
| 1.                                             | 450°F, 100 sec -1 |      |            |
| 2.                                             | 65% R.H.          |      |            |

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