

# Anjaflam® 100X-FR/UV

Polycarbonate  
Almaak International GmbH

Message:

Anjaflam® 100X-FR/UV is a Polycarbonate (PC) material. It is available in Europe for injection molding.  
Important attributes of Anjaflam® 100X-FR/UV are:  
Flame Rated  
Flame Retardant  
Good UV Resistance  
Medium Viscosity  
UV Stabilized

| General Information                        |                    |           |              |
|--------------------------------------------|--------------------|-----------|--------------|
| UL YellowCard                              | E169818-552011     |           |              |
| Additive                                   | Flame Retardant    |           |              |
|                                            | UV Stabilizer      |           |              |
| Features                                   | Flame Retardant    |           |              |
|                                            | Good UV Resistance |           |              |
|                                            | Medium Viscosity   |           |              |
| Processing Method                          | Injection Molding  |           |              |
| Physical                                   | Nominal Value      | Unit      | Test Method  |
| Density (23°C)                             | 1.20               | g/cm³     | ISO 1183     |
| Melt Volume-Flow Rate (MVR) (300°C/1.2 kg) | 11.0               | cm³/10min | ISO 1133     |
| Water Absorption                           |                    |           | ISO 62       |
| 23°C, 24 hr                                | 0.35               | %         |              |
| Equilibrium, 23°C, 50% RH                  | 0.15               | %         |              |
| Mechanical                                 | Nominal Value      | Unit      | Test Method  |
| Tensile Modulus                            | 2500               | MPa       | ISO 527-2/1  |
| Tensile Stress (Yield)                     | 65.0               | MPa       | ISO 527-2/50 |
| Tensile Strain (Break)                     | 6.0                | %         | ISO 527-2/50 |
| Impact                                     | Nominal Value      | Unit      | Test Method  |
| Charpy Notched Impact Strength (23°C)      | 12                 | kJ/m²     | ISO 179/1eA  |
| Charpy Unnotched Impact Strength (23°C)    | No Break           |           | ISO 179/1eU  |
| Thermal                                    | Nominal Value      | Unit      | Test Method  |
| Heat Deflection Temperature                |                    |           |              |
| 0.45 MPa, Unannealed                       | 135                | °C        | ISO 75-2/B   |
| 1.8 MPa, Unannealed                        | 125                | °C        | ISO 75-2/A   |
| Glass Transition Temperature               | 148                | °C        | DSC          |
| Vicat Softening Temperature                | 142                | °C        | ISO 306/B50  |

| Flammability                   | Nominal Value | Unit | Test Method    |
|--------------------------------|---------------|------|----------------|
| Flame Rating (1.60 mm)         | V-0           |      | UL 94          |
| Glow Wire Flammability Index   |               |      | IEC 60695-2-12 |
| 1.60 mm                        | 960           | °C   |                |
| 2.00 mm                        | 960           | °C   |                |
| 3.00 mm                        | 960           | °C   |                |
| Glow Wire Ignition Temperature |               |      | IEC 60695-2-13 |
| 1.60 mm                        | 855           | °C   |                |
| 2.00 mm                        | 855           | °C   |                |
| 3.00 mm                        | 855           | °C   |                |
| Injection                      | Nominal Value | Unit |                |
| Drying Temperature             | 120           | °C   |                |
| Drying Time                    | 2.0 to 5.0    | hr   |                |
| Suggested Max Moisture         | 0.020         | %    |                |
| Processing (Melt) Temp         | 280 to 300    | °C   |                |
| Mold Temperature               | 85.0 to 120   | °C   |                |

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#### Recommended distributors for this material

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