

# KYNAR® UHM 6020-20

Kynar® resins are fluorinated thermoplastic homopolymers.

**Outstanding characteristics:** chemical resistance, imperviousness to UV, high barrier properties, high purity, excellent mechanical and thermo-mechanical properties.

Kynar® UHM 6020-20 resin is a specific grade of granules for injection, extrusion, compression and transfer molding.

**This grade has specific improved mechanical properties where extreme conditions in temperature and pressure are needed.**

## MAIN CHARACTERISTICS

| PROPERTIES                                      | VALUE       | UNIT              | TEST STANDARD   |
|-------------------------------------------------|-------------|-------------------|-----------------|
| <b>RHEOLOGICAL PROPERTIES</b>                   |             |                   |                 |
| Mold Shrinkage, 23°C at 50% RH                  | 0.25 - 1    | %                 | ASTM D955       |
| <b>MECHANICAL PROPERTIES</b>                    |             |                   |                 |
| Tensile Modulus                                 | 7900        | MPa               | ISO 527-1/-2    |
| Tensile Modulus, 73 °F                          | 788         | MPa               | ASTM D638       |
| Tensile Strength at Yield, 73 °F                | 120         | MPa               | ASTM D638       |
| Stress at Break                                 | 120         | MPa               | ISO 527-1/-2    |
| Strain at Break                                 | 3           | %                 | ISO 527-1/-2    |
| Elongation at Break, 73 °F                      | 3           | %                 | ASTM D638       |
| Flexural Modulus, 73 °F                         | 6560        | MPa               | ASTM D790       |
| Flexural Strength @ 5% Strain, 73 °F            | 174         | MPa               | ASTM D790       |
| Tensile Creep Modulus, 1h                       | 7900        | MPa               | ISO 899-1       |
| Tensile Creep Modulus, 1000h                    | 7900        | MPa               | ISO 899-1       |
| Charpy Impact Strength, +23°C                   | 44          | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Notched Impact Strength, 73 °F                  | 0.101       | kJ/m              | ASTM D256       |
| <b>THERMAL PROPERTIES</b>                       |             |                   |                 |
| Melting Temperature, 10°C/min                   | 170         | °C                | ISO 11357-1/-3  |
| Melting Point, 73 °F                            | 165 - 172   | °C                | ASTM D3418      |
| Temp. of Deflection Under Load, 1.80 MPa        | 159         | °C                | ISO 75-1/-2     |
| Heat Deflection Temperature, 264 Psi, 248 °F/hr | 159         | °C                | ASTM D648       |
| Heat Deflection Temperature, 66 Psi, 248 °F/hr  | 160         | °C                | ASTM D648       |
| Coeff. of Linear Thermal Expansion, parallel    | 35          | E-6/K             | ISO 11359-1/-2  |
| Coeff. of Linear Thermal Expansion, normal      | 35          | E-6/K             | ISO 11359-1/-2  |
| Burning Behav. at 1.5 mm Nominal Thickness      | V-0         | class             | IEC 60695-11-10 |
| <b>OTHER PROPERTIES</b>                         |             |                   |                 |
| Water Absorption                                | 0           | %                 | Sim. to ISO 62  |
| Humidity Absorption                             | 0           | %                 | Sim. to ISO 62  |
| Specific Gravity, 73 °F                         | 1.87 - 1.89 | -                 | ASTM D792       |

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**KYNAR®**  
BY ARKEMA

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## MAIN APPLICATIONS:

- corrosion protection in the chemical industry

## PROCESSING

Injection Molding, Profile Extrusion, Transfer Molding

## DELIVERY FORM

Pellets

## REGIONAL AVAILABILITY

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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