

# 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.**

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
	1.15E6	psi	
Tensile Modulus, 73 °F	788	MPa	ASTM D638
	114000	psi	
Tensile Strength at Yield, 73 °F	120	MPa	ASTM D638
	17400	psi	
Stress at Break	120	MPa	ISO 527-1/-2
	17400	psi	
Strain at Break	3	%	ISO 527-1/-2
Elongation at Break, 73 °F	3	%	ASTM D638
Flexural Modulus, 73 °F	6560	MPa	ASTM D790
	952000	psi	
Flexural Strength @ 5% Strain, 73 °F	174	MPa	ASTM D790
	25300	psi	
Tensile Creep Modulus, 1h	7900	MPa	ISO 899-1
	1.15E6	psi	
Tensile Creep Modulus, 1000h	7900	MPa	ISO 899-1
	1.15E6	psi	
Charpy Impact Strength, +23°C	44	kJ/m <sup>2</sup>	ISO 179/1eU
	20.9	ftlb/in <sup>2</sup>	
Notched Impact Strength, 73 °F	0.101	kJ/m	ASTM D256
	1.9	ftlb/in	
<b>THERMAL PROPERTIES</b>			
Melting Temperature, 10°C/min	170	°C	ISO 11357-1/-3
Melting Point	165 - 172	°C	ASTM D3418

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 Source: automatically generated TDS from Material Database on 12-08-2024

# KYNAR<sup>®</sup>

## UHM 6020-20

Temp. of Deflection Under Load, 1.80 MPa	159	°C	ISO 75-1/-2
	318	°F	
Heat Deflection Temperature, 264 Psi, 248 °F/hr	159	°C	ASTM D648
	318	°F	
Heat Deflection Temperature, 66 Psi, 248 °F/hr	160	°C	ASTM D648
	320	°F	
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, 23°C, immersion, equilibrium	0	%	ISO 62
Humidity Absorption, 23°C, RH50%, equilibrium	0	%	ISO 62
Specific Gravity, 73 °F	1.87 - 1.89	-	ASTM D792

## APPLICATION PROPERTIES

**Caution:** The use of foaming agents with Kynar<sup>®</sup> UHM 6020 is not recommended. Please see our SDS for further safety information.

## MAIN APPLICATIONS:

- corrosion protection in the chemical industry

<b>PROCESSING</b> Injection Molding, Profile Extrusion, Transfer Molding	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
<b>DELIVERY FORM</b> Pellets	
<b>REGIONAL AVAILABILITY</b> North America, Europe, Asia Pacific, South and Central America, Near East/Africa	
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