

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
RHEOLOGICAL PROPERTIES			
Mold Shrinkage, 23°C at 50% RH	0.25 - 1	%	ASTM D955
MECHANICAL PROPERTIES			
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 ²	ISO 179/1eU
	20.9	ftlb/in ²	
Notched Impact Strength, 73 °F	0.101	kJ/m	ASTM D256
	1.9	ftlb/in	
THERMAL PROPERTIES			
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[®] 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
OTHER PROPERTIES			
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[®] UHM 6020 is not recommended. Please see our SDS for further safety information.

MAIN APPLICATIONS:

- corrosion protection in the chemical industry

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