

KYNAR®

400 HDC M800

Kynar® resins are fluorinated thermoplastic homopolymers.

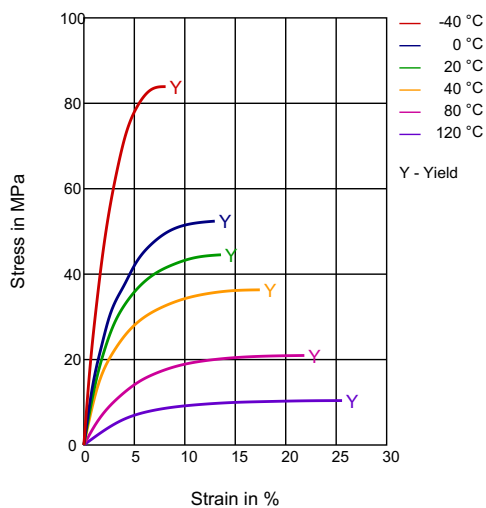
Kynar® 400 HDC M800 resin is a thermoplastic fluorinated polymer. This product has been designed for Oil & Gas applications.

PROPERTIES	VALUE	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	3	cm ³ /10min	ISO 1133
Temperature	230	°C	-
	446	°F	-
Load	10	kg	-
	22	lb	-
Melt Viscosity, 230°C, 100 s-1	2	kPoise	ASTM D3835
MECHANICAL PROPERTIES			
Tensile Modulus	1000	MPa	ISO 527-1/-2
	145000	psi	
Yield stress	45	MPa	ISO 527-1/-2
	6530	psi	
Yield strain	15	%	ISO 527-1/-2
Nominal Strain at Break	40	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	No Break	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	No Break	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	51	kJ/m ²	ISO 179/1eA
	24.3	ftlb/in ²	
Charpy Notched Impact Strength, -30°C	10.6	kJ/m ²	ISO 179/1eA
	5.04	ftlb/in ²	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	171	°C	ISO 11357-1/-3
Temp. of Deflection Under Load, 1.80 MPa	67	°C	ISO 75-1/-2
	153	°F	
Coeff. of Linear Thermal Expansion, parallel	183	E-6/K	ISO 11359-1/-2
OTHER PROPERTIES			
Density	1730	kg/m ³	ISO 1183
	1.73	g/cm ³	
Spec. heat capacity of melt	1600	J/(kg K)	-
Thermal conductivity of melt	0.19	W/(m K)	-

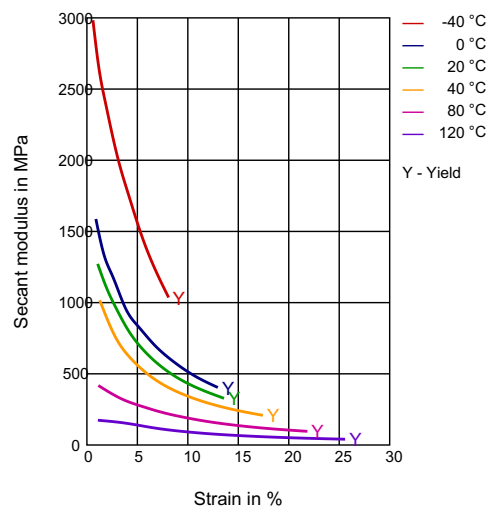
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DIAGRAMS

STRESS-STRAIN



SECANT MODULUS-STRAIN



PROCESSING

Profile Extrusion, Sheet Extrusion, Other Extrusion

DELIVERY FORM

Pellets

ADDITIVES

Plasticizer