



Kynar® 720

Kynar® resins are fluorinated thermoplastic homopolymers. Kynar® 720 resin is a standard grade of granules for injection molding. This product is ANSI/NSF Standard 61 certified.

Physical Properties

MEASUREMENT	CONDITION	Value
Density / Specific Gravity	ASTM D792 ISO 1183	1.77 to 1.79 1.78g/cm ³
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	ASTM D1238	5.0 to 27g/10 min
Melt Volume-Flow Rate (MVR) (230°C/5.0 kg)	ISO 1133	10cm ³ /10min
Molding Shrinkage Across Flow Flow	ISO 294-4	2.0% 2.0%
Water Absorption Saturation Saturation, 73°F Equilibrium, 73°F, 50% RH	ASTM D570 ISO 62 ISO 62	0.010 to 0.030% 0.030% 0.015%

Hardness Properties

MEASUREMENT	CONDITION	Value
Durometer Hardness (Shore D, 73°F)	ASTM D2240	76 to 80

Mechanical Properties

MEASUREMENT	CONDITION	Value
Tensile Modulus 73°F --	ASTM D638 ISO 527-1	200000 psi 319000 psi
Tensile Strength Yield, 73°F Yield Break, 73°F	ASTM D638 ISO 527-2 ASTM D638	6500 to 8010psi 7830 psi 5000 to 8010 psi

Features

- Barrier Resin
- Chemical Resistant
- Corrosion Resistant
- Heat Stabilized
- High Purity
- Homopolymer
- Light Stabilized
- UV Resistant

Applications

- Coating Applications
- Film
- Sheet
- Wire & Cable Applications

Processing Method

- Casting
- Coating
- Coextrusion
- Extrusion
- Film Extrusion
- Injection Molding
- Sheet Extrusion
- Thermoforming

contact@quickparts.com | www.quickparts.com

©2023. All rights reserved. Specifications subject to change without notice.

Kynar® 720

Mechanical Properties (continued)

MEASUREMENT	CONDITION	Value
Tensile Elongation		
Yield, 73°F	ASTM D638	5.0 to 10%
Yield	ISO 527-2	8.0%
Break, 73°F	ASTM D638	20 to 100%
Nominal Tensile Strain at Break	ISO 527-2	> 50%
Flexural Modulus (73°F)	ASTM D790	200000 to 335000 psi
Flexural Strength (5.0% Strain, 73°F)	ASTM D790	8500 to 11000 psi
Compressive Strength (73°F)	ASTM D695	9990 to 14900 psi
Coefficient of Friction ³ vs. Steel - Dynamic vs. Steel - Static	ASTM D1894	0.20
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	Internal Method	5.00 to 9.00 mg

Impact Properties

MEASUREMENT	CONDITION	Value
Charpy Notched Impact Strength		
-22°F	ISO 179/1eA	2.4 ft·lb/in ²
73°F		3.8 ft·lb/in ²
Charpy Unnotched Impact Strength		
-22°F	ISO 179/1eU	90 ft·lb/in ²
73°F		99 ft·lb/in ²
Notched Izod Impact (73°F)	ASTM D256	1.5 to 4.0 ft·lb/in
Unnotched Izod Impact (73°F)	ASTM D256	20 to 80 ft·lb/in

Flammability Properties

MEASUREMENT	CONDITION	Value
Flammability Classification		
0.03 in	IEC 60695-11-10, -20	V-0
0.06 in		V-0
Oxygen Index		
-- ³	ASTM D2863	44%
--	ISO 4589-2	43%

contact@quickparts.com | www.quickparts.com

©2023. All rights reserved. Specifications subject to change without notice.

North America
+1 931 766 7290

United Kingdom
+44 (0) 1494 479 690

Germany
+49 (0) 6073 689 6000

France
+33 (0) 2 43 51 20 30

Italy
+39 0121 390310

Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. Quickparts makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

Kynar[®] 720

Thermal Properties

MEASUREMENT	CONDITION	Value
Deflection Temperature Under Load 66 psi, Unannealed ⁴	ASTM D648	257 to 284 °F
66 psi, Unannealed	ISO 75-2/B	270°F
264 psi, Unannealed ⁴	ASTM D648	221 to 239°F
264 psi, Unannealed	ISO 75-2/A	230°F
Glass Transition Temperature --	ASTM D7028	-41.1 to -36.9°F
-- ⁵	ISO 11357-2	-40.0°F
Vicat Softening Temperature	ISO 306/B50	282°F
Melting Temperature --	ISO 11357-3	334°F
-- ⁵	ASTM D3418	329 to 342°F
CLTE - Flow 73°F	ASTM D696	6.6E-5 to 8.0E-5in/in/°F
--	ISO 11359-2	8.3E-5in/in/°F
Specific Heat	DSC	0.178 to 0.229 Btu/lb/°F
Thermal Conductivity	ASTM D433	1.2 to 1.3 Btu·in/hr/ft ² /°F
RTI Elec	UL 746B	302°F
RTI Imp	UL 746B	302°F
RTI Str	UL 746B	302°F

Electrical Properties

MEASUREMENT	CONDITION	Value
Surface Resistivity	IEC 60093	> 1.0E+15ohms
Volume Resistivity 68°F ⁶	ASTM D257	2.0E+14 ohms·cm
--	IEC 60093	2.0E+14 ohms·cm
Dielectric Strength 73°F	ASTM D149	> 1700 V/mil
--	IEC 60243-1	530 V/mil

contact@quickparts.com | www.quickparts.com

©2023. All rights reserved. Specifications subject to change without notice.

North America
+1 931 766 7290

United Kingdom
+44 (0) 1494 479 690

Germany
+49 (0) 6073 689 6000

France
+33 (0) 2 43 51 20 30

Italy
+39 0121 390310

Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. Quickparts makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.

Kynar[®] 720

Electrical Properties (continued)

MEASUREMENT	CONDITION	Value
Dielectric Constant		
1 kHz	ASTM D150	4.50 to 9.50
100 Hz	IEC 60250	9.00
1 MHz	IEC 60250	7.00
Dissipation Factor		
100 kHz	ASTM D150	0.010 to 0.21
100 Hz	IEC 60250	0.032
1 MHz	IEC 60250	0.21
Comparative Tracking Index	IEC 60112	600 V

Optical Properties

MEASUREMENT	CONDITION	Value
Refractive Index ⁷	ASTM D542	1.420

Fill Analysis

MEASUREMENT	CONDITION	Value
Melt Viscosity (446°F, 100 sec ⁻¹)	ASTM D3835	600 to 1200 Pa·s

Additional Properties

MEASUREMENT	CONDITION	Value
Thermal Decomposition Temperature		
in air, 1% wt. loss	TGA	770°F
in nitrogen, 1% wt. loss		707°F

Notes:

³73°F

⁴248°F/hr

⁵10°C/min

⁶DC, 65% R.H.

⁷@ sodium D line

contact@quickparts.com | www.quickparts.com

©2023. All rights reserved. Specifications subject to change without notice.

North America
+1 931 766 7290

United Kingdom
+44 (0) 1494 479 690

Germany
+49 (0) 6073 689 6000

France
+33 (0) 2 43 51 20 30

Italy
+39 0121 390310

Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. Quickparts makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.