

XENOY™ RESIN HTX975

REGION AMERICAS

DESCRIPTION

XENOY HTX975 is a 35% high strength glass fiber reinforced resin with increase modules when compared to XENOY HTX575, excellent strength, stiffness and heat resistance. Applications include injection molded parts that need to survive e-coating and subsequent baking processes up to about 200° Celsius, EV electric vehicle components, FEM & GOR, structures and grill shutters.

TYPICAL PROPERTY VALUES

Revision 20210511

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break, 5 mm/min	142	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.1	%	ISO 527
Tensile Modulus, 1 mm/min	10500	MPa	ISO 527
Flexural Stress, break, 2 mm/min	207	MPa	ISO 178
Flexural Modulus, 2 mm/min	10450	MPa	ISO 178
IMPACT			
Izod Impact, unnotched 80°10°4 +23°C	47	kJ/m²	ISO 180/1U
Izod Impact, unnotched 80°10°4 -30°C	47	kJ/m²	ISO 180/1U
Izod Impact, notched 80°10°4 +23°C	8	kJ/m²	ISO 180/1A
Izod Impact, notched 80°10°4 -30°C	8	kJ/m²	ISO 180/1A
Charpy -30°C, V-notch Edgew 80°10°4 sp=62mm	9	kJ/m²	ISO 179/1eA
THERMAL			
CTE, -40°C to 40°C, flow	2.10E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.20E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate A/120	235	°C	ISO 306
Vicat Softening Temp, Rate B/50	215	°C	ISO 306
HDT/Bf, 0.45 MPa Flatw 80°10°4 sp=64mm	234	°C	ISO 75/Bf
HDT/ Af, 1.8 MPa Flatw 80°10°4 sp=64mm	201	°C	ISO 75/ Af
PHYSICAL			
Mold Shrinkage, flow, 3.2 mm	0.4 – 0.6	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm	0.6 – 0.8	%	SABIC method
Density	1.62	g/cm³	ISO 1183
Water Absorption, (23°C/saturated)	0.26	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.11	%	ISO 62
Melt Volume Rate, MVR at 265°C/5.0 kg	33	cm³/ 10 min	ISO 1133
ELECTRICAL			
Volume Resistivity	5.90E+13	Ω.cm	ASTM D257
Surface Resistivity	2.88E+13	Ω	ASTM D257
Dielectric Strength, in oil, 0.8 mm	30	kV/mm	ASTM D149
Dielectric Strength, in oil, 1.6 mm	21	kV/mm	ASTM D149
Dielectric Strength, in oil, 3.2 mm	16	kV/mm	ASTM D149
INJECTION MOLDING			
Drying Temperature	135	°C	

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CHEMISTRY THAT MATTERS™



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time	4 – 6	Hrs	
Drying Time (Cumulative)	12	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	270 – 280	°C	
Nozzle Temperature	265 – 275	°C	
Front - Zone 3 Temperature	270 – 280	°C	
Middle - Zone 2 Temperature	260 – 270	°C	
Rear - Zone 1 Temperature	250 – 260	°C	
Hopper Temperature	40 – 60	°C	
Mold Temperature	40 – 65	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	50 – 80	rpm	
Shot to Cylinder Size	40 – 80	%	
Vent Depth	0.025 – 0.038	mm	

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