

GELOY™ RESIN XTWM206

REGION AMERICAS

DESCRIPTION

ASA, Xtreme weatherability, high heat.

TYPICAL PROPERTY VALUES

Revision 20260429

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	46	MPa	ASTM D638
Tensile Stress, brk, Type I, 50 mm/min	37	MPa	ASTM D638
Tensile Stress, yld, Type I, 5 mm/min	43	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	36	MPa	ASTM D638
Tensile Strain, yld, Type I, 50 mm/min	2.7	%	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	26	%	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	2.5	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	27	%	ASTM D638
Tensile Modulus, 50 mm/min	2400	MPa	ASTM D638
Tensile Modulus, 5 mm/min	2360	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	74	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2450	MPa	ASTM D790
Hardness, Rockwell R	100	-	ASTM D785
Tensile Stress, yield, 50 mm/min	45	MPa	ISO 527
Tensile Stress, break, 50 mm/min	36	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	2.8	%	ISO 527
Tensile Strain, break, 50 mm/min	36	%	ISO 527
Tensile Modulus, 1 mm/min	2350	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	64	MPa	ISO 178
Flexural Modulus, 2 mm/min	2380	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	210	J/m	ASTM D256
Izod Impact, notched, -30°C	35	J/m	ASTM D256
Instrumented Dart Impact Total Energy, 23°C	36	J	ASTM D3763
Instrumented Dart Impact Total Energy, -30°C	3	J	ASTM D3763
Izod Impact, notched 80*10*4 +23°C	15	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	3	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	11	kJ/m²	ISO 179/1eA
THERMAL			
Vicat Softening Temp, Rate B/50	98	°C	ASTM D1525
HDT, 0.45 MPa, 3.2 mm, unannealed	97	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	84	°C	ASTM D648
CTE, -40°C to 40°C, flow	8.4E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	9.4E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, flow	8.3E-05	1/°C	ISO 11359-2

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CHEMISTRY THAT MATTERS™



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CTE, -40°C to 40°C, xflow	9.4E-05	1/°C	ISO 11359-2
Ball Pressure Test, 75°C +/- 2°C	Pass85	-	IEC 60695-10-2
Vicat Softening Temp, Rate B/50	95	°C	ISO 306
Vicat Softening Temp, Rate B/120	99	°C	ISO 306
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	98	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	84	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.09	-	ASTM D792
Mold Shrinkage on Tensile Bar, flow	0.4 – 0.7	%	SABIC method
Mold Shrinkage, flow, 3.2 mm	0.4 – 0.7	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm	0.4 – 0.75	%	SABIC method
Melt Flow Rate			
220°C/10.0 kgf	8.8	g/10 min	ASTM D1238
260°C/5.0 kgf	7.1	g/10 min	ASTM D1238
280°C/3.8 kgf	7.2	g/10 min	ASTM D1238
Density	1.09	g/cm³	ISO 1183
Water Absorption, (23°C/saturated)	0.5	%	ISO 62-1
Moisture Absorption (23°C / 50% RH)	0.2	%	ISO 62
Melt Volume Rate			
260°C/5.0 kg	9	cm³/10 min	ISO 1133
OPTICAL			
Gloss, untextured, 60 degrees	93	-	ASTM D523
FLAME CHARACTERISTICS			
UL Yellow Card Link	E121562-486714	-	-
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94
UV-light, water exposure/immersion	F1	-	UL 746C
INJECTION MOLDING			
Drying Temperature	85 – 90	°C	
Drying Time	4	Hrs	
Drying Time (Cumulative)	8	Hrs	
Maximum Moisture Content	0.04	%	
Melt Temperature	240 – 270	°C	
Nozzle Temperature	220 – 255	°C	
Front - Zone 3 Temperature	230 – 260	°C	
Middle - Zone 2 Temperature	220 – 255	°C	
Rear - Zone 1 Temperature	215 – 250	°C	
Mold Temperature	60 – 85	°C	
Back Pressure	0.3 – 1	MPa	
Screw Speed	30 – 80	rpm	
Shot to Cylinder Size	40 – 80	%	
Vent Depth	0.038 – 0.076	mm	



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