

## GELOY\* CR7500 Resin GE Plastics - Acrylonitrile Styrene Acrylate + AMSAN

Wednesday, November 22, 2006

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n Molding	
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and ISO Properties 1	
Nominal Value Unit	Test Method
1.08 sp gr 23/23°C	ASTM D792
1.07 g/cm <sup>3</sup>	ISO 1183
6.3 g/10 min	ASTM D1238
11.0 g/10 min	
0.403 in³/10min 0.610 in³/10min	ISO 1133
0.0050 to 0.0080 in/in	ASTM D955
0.50 %	ISO 62
0.20 %	ISO 62
Nominal Value Unit	Test Method
286000 psi	ASTM D638
296000 psi	ISO 527-1, -2
5800 psi	ASTM D638
6240 psi	ISO 527-1, -2
4790 psi	ASTM D638
5080 psi	ISO 527-1, -2
3.6 %	ASTM D638
3.3 %	ISO 527-1, -2
60 %	ASTM D638
19 %	ISO 527-1, -2
315000 psi	ASTM D790
299000 psi	ISO 178
9860 psi	ASTM D790
Nominal Value Unit	Test Method
6.66 ft-lb/in <sup>2</sup>	ISO 179
	ASTM D256
	286000 psi 296000 psi 5800 psi 5800 psi 6240 psi 4790 psi 5080 psi 3.6 % 3.3 % 60 % 19 % 315000 psi 299000 psi 9860 psi

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Notched Izod Impact Strength <sup>8</sup> (-22 °F) (73 °F)	2.86 ft-lb/in² 7.14 ft-lb/in²	ISO 180
Instrumented Dart Impact (73 °F )	Total Energy: 266 in-lb	ASTM D3763
Thermal	Nominal Value Unit	Test Method
DTUL @264psi - Unannealed (0.126 in )	194 °F	ASTM D648
HDT A (1.80 MPa) Unannealed		ISO 75A-1, -2
() <sup>9</sup>	190 °F	
() 10	192 °F	
Vicat Softening Point (Rate B, Loading 2 (50 N))	208 °F	ASTM D1525
Vicat Softening Temperature		ISO 306
(B120 (120°C/h 50N))	221 °F	
(B50 (50°C/h 50N))	216 °F	
CLTE, Flow (TMA) (-40 to 104°F (-40 to 40°C))	0.000047 in/in/°F	ASTM E831
Coefficient of Linear Thermal Expansion, Flow (-40 to 104°F (-40 to 40°C))	0.000047 in/in/°F	ISO 11359-1, -2
CLTE, Transverse (TMA) (-40 to 104°F (-40 to 40°C))	0.000053 in/in/°F	ASTM E831
Coefficient of Linear Thermal Expansion, Transverse (-40 to 104°F (-40 to 40°C))	0.000053 in/in/°F	ISO 11359-1, -2

**Additional Properties** 

Ball Pressure Test, IEC 60695-10-2, Approximate Maximum: 98°C Flexural Stress at Yield, ISO 178, 2 mm/min: 64 MPa

Processing Information		
Injection	Nominal Value Unit	
Drying Temperature	185 to 203 °F	
Drying Time	3.0 to 4.0 hr	
Drying Time, Maximum	8.0 hr	
Suggested Max Moisture	0.040 %	
Suggested Shot Size	40 to 80 %	
Rear Temperature	446 to 482 °F	
Middle Temperature	455 to 491 °F	
Front Temperature	473 to 500 °F	
Nozzle Temperature	455 to 491 °F	
Processing (Melt) Temp	491 to 518 °F	
Mold Temperature	140 to 185 °F	
Back Pressure	43.5 to 145 psi	
Screw Speed	30 to 80 rpm	
Vent Depth	0.0015 to 0.0030 in	

Notes
Typical properties: these are not to be construed as specifications.
0.20 in/min
3 0.039 in/min
Type I, 0.20 in/min
0.051 in/min
0.079 in/min
Type 1, Edgewise, Notch A
Type 1, Notch A
Edgewise, 120*10*4 mm, 3.94 in
<sup>0</sup> Flatwise, 80*10*4 mm, 2.52 in

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