

GELOY™ RESIN CR7520

REGION AMERICAS

DESCRIPTION

ASA. Profile and Sheet. Excellent weatherability, good flow/aesthetics and high impact.

TYPICAL PROPERTY VALUES

Revision 20260509

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	41	MPa	ASTM D638
Tensile Stress, brk, Type I, 50 mm/min	34	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	40	%	ASTM D638
Tensile Modulus, 50 mm/min	1790	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	58	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	1790	MPa	ASTM D790
Hardness, Rockwell R	86	-	ASTM D785
Tensile Stress, yield, 50 mm/min	39	MPa	ISO 527
Tensile Stress, break, 50 mm/min	30	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	3.1	%	ISO 527
Tensile Strain, break, 50 mm/min	44	%	ISO 527
Tensile Modulus, 1 mm/min	2000	MPa	ISO 527
Flexural Modulus, 2 mm/min	2000	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	320	J/m	ASTM D256
Izod Impact, notched, -30°C	58	J/m	ASTM D256
Instrumented Dart Impact Total Energy, 23°C	35	J	ASTM D3763
Instrumented Dart Impact Total Energy, -30°C	20	J	ASTM D3763
Izod Impact, notched 80*10*4 +23°C	19	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	5	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	17	kJ/m²	ISO 179/1eA
THERMAL			
Vicat Softening Temp, Rate B/50	99	°C	ASTM D1525
HDT, 0.45 MPa, 3.2 mm, unannealed	87	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	76	°C	ASTM D648
HDT, 1.82 MPa, annealed	95	°C	ASTM D648
HDT, 0.45 MPa, 6.4 mm, unannealed	90	°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm, unannealed	79	°C	ASTM D648
CTE			
-40°C to 40°C, flow	8.64E-05	1/°C	ASTM E831
-40°C to 40°C, xflow	9.18E-05	1/°C	ASTM E831
-30°C to 0°C, flow	8.46E-05	1/°C	ASTM E831
0°C to 100°C, flow	9.E-05	1/°C	ASTM E831
Vicat Softening Temp, Rate B/50	90	°C	ISO 306
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	91	°C	ISO 75/Bf

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CHEMISTRY THAT MATTERS™



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	80	°C	ISO 75 /Af
Relative Temp Index, Elec	50	°C	UL 746B
Relative Temp Index, Mech w/impact	50	°C	UL 746B
Relative Temp Index, Mech w/o impact	50	°C	UL 746B
PHYSICAL			
Specific Gravity	1.06	-	ASTM D792
Water Absorption, (23°C/Saturated)	0.55	%	ASTM D570
Mold Shrinkage, flow, 3.2 mm	0.5 – 0.7	%	SABIC method
Melt Flow Rate			
220°C/10.0 kgf	7	g/10 min	ASTM D1238
260°C/5.0 kgf	13	g/10 min	ASTM D1238
280°C/3.8 kgf	19.5	g/10 min	ASTM D1238
OPTICAL			
Gloss, untextured, 60 degrees	95	-	ASTM D523
ELECTRICAL			
Surface Resistivity	>1.E+15	Ω	ASTM D257
Dielectric Strength, in oil, 3.2 mm	15.9	kV/mm	ASTM D149
Relative Permittivity, 50/60 Hz	5.2	-	ASTM D150
Relative Permittivity, 1 MHz	3.21	-	ASTM D150
Dissipation Factor			
50/60 Hz	0.15	-	ASTM D150
1 MHz	0.026	-	ASTM D150
Hot Wire Ignition {PLC}	3	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	0	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	0	PLC Code	UL 746A
FLAME CHARACTERISTICS			
UL Yellow Card Link	E121562-220670	-	-
UL Recognized, 94HB Flame Class Rating	1.47	mm	UL 94
UV-light, water exposure/immersion	F2	-	UL 746C
INJECTION MOLDING			
Drying Temperature	80 – 90	°C	
Drying Time	3 – 6	Hrs	
Drying Time (Cumulative)	12	Hrs	
Maximum Moisture Content	0.04	%	
Melt Temperature	240 – 270	°C	
Nozzle Temperature	240 – 270	°C	
Front - Zone 3 Temperature	240 – 270	°C	
Middle - Zone 2 Temperature	225 – 260	°C	
Rear - Zone 1 Temperature	220 – 250	°C	
Mold Temperature	55 – 75	°C	
Back Pressure	0.7 – 1.4	MPa	
Screw Speed	30 – 80	rpm	
Shot to Cylinder Size	40 – 80	%	
Vent Depth	0.038 – 0.076	mm	



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