

Rear Temperature

Hylex® P1010G20 HB Ravago Manufacturing Americas, LLC - Polycarbonate

Wednesday, 25 August 2010

Ravago Manulacturing Ameri				Wednesday, 25 August 2010
	General In	formation		
General				
Material Status	Commercial: Active			
Availability	North America			
Filler / Reinforcement	 Glass Fiber Reinforcement 	, 20% Filler by Weight		
RoHS Compliance	 RoHS Compliant 			
Forms	• Pellets			
Processing Method	Injection Molding			
	ASTM and ISC	O Properties ¹		
Physical		Nominal Value	Unit	Test Method
Specific Gravity		1.35		ASTM D792
Melt Mass-Flow Rate (300°C/1.2 kg)		9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow		0.0010 to 0.0030	in/in	ASTM D955
Water Absorption (24 hr)		0.13	%	ASTM D570
Mechanical		Nominal Value	Unit	Test Method
Tensile Strength (73°F)		16000	psi	ASTM D638
Tensile Elongation (Break, 73°F)		5.0	%	ASTM D638
Flexural Modulus (73°F)		750000	psi	ASTM D790
Flexural Strength (Break, 73°F)		20000	psi	ASTM D790
Impact		Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)		2.00	ft·lb/in	ASTM D256
Hardness		Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)		91		ASTM D785
Thermal		Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 p	si, Unannealed)	300	°F	ASTM D648
Deflection Temperature Under Load				ASTM D648
264 psi, Unannealed		295	°F	
Vicat Softening Temperature		330	°F	ASTM D1525
Electrical		Nominal Value	Unit	Test Method
Volume Resistivity		4.0E+16	ohm·cm	ASTM D257
Dielectric Strength (73°F, 0.125 in, In Air)		450	V/mil	ASTM D149
Arc Resistance		120	sec	ASTM D495
Flammability		Nominal Value	Unit	Test Method
Flame Rating - UL (0.0590 in)		НВ		UL 94
	Processing	Information		
Injection		Nominal Value	Unit	
Drying Temperature		250	°F	
Drying Time		4.0 to 6.0	hr	
Drying Time, Maximum		12	hr	
Suggested Max Moisture		0.020	%	
Suggested Shot Size		40 to 60	%	

550 to 570 °F

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0 to 600 °F 0 to 620 °F
to 620 °F
to 620 °F
to 640 °F
to 250 °F
to 2000 psi
to 1400 psi
) to 180 psi
60 to 80 rpm

Pressures given are in the hydraulic circuit.

Drying time should not exceed 12 hours to avoid excessive heat history.

Drying time is 6 to 8 hours with regrind.

Dew point of circulating air to be less than -20°F at hopper inlet.

Air throughout minimum of 1 CFM/lb resin/hr.

Notes

¹ Typical properties: these are not to be construed as specifications.