

## MATERIAL TEST REPORT

Sales Order: SO0001414


Purchase Order: SBB-0062

SB NAVITAS  
480, 435 - 4TH AVE SW  
CALGARY AB  
Calgary , CA

## CHEMICAL ANALYSIS

	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	AL	V	B	Cb	Ti	Ca	N	O	CEQ	DI	PrM
HEAT	0.27	1.42	0.014	0.008	0.23	0.09	0.05	0.39	0.02		0.024	0.004	0.0016		0.034				0.599		
CHECK	0.279	1.361	0.012	0.002	0.226	0.090	0.085	0.385	0.022	0.010	0.031	0.007	0.0010		0.045	0.0017			0.600		
CHECK	0.257	1.363	0.013	0.002	0.224	0.091	0.085	0.385	0.022	0.010	0.031	0.007	0.0009		0.045	0.0010			0.578		

## MECHANICAL PROPERTIES

<u>Test</u> 4L09358	<u>Type</u> Strip	<u>Size</u> 1"	<u>Orient</u> Long.	<u>Yield KSI</u> 124.58	<u>Tensile KSI</u> 132.87	<u>Elong in 2"</u> 20.45	<u>Y/T Ratio</u> 0.9376					Collapse, PSI 12200		Hydrotest, PSI 11600			
												Flattening OK		Hold Time: 5 SEC			
				Impact Tests				Hardness									
<u>Test</u>	<u>Loc</u>	<u>Size</u>	<u>Temp</u>	<u>Notch</u>	<u>Energy (AVG)</u>	<u>%Shear</u>	<u>Scale</u>	<u>Lat Exp.</u>	<u>I.D.</u>	<u>M.W.</u>	<u>O.D.</u>	<u>Mean #</u>	<u>Scale</u>	<u>I.D.</u>	<u>M.W.</u>	<u>O.D.</u>	<u>Mean #</u>
	L	3/4	32		62	90		HRC				30.36					
Inspections Performed								Remarks					From the office of:				
<u>Test</u>	<u>Type</u>	<u>Pass</u>	<u>Cal.</u>	<u>Test</u>	<u>Type</u>	<u>Pass</u>	Release # SO0001414										
							Processor: BMG										
							W/O #: 4611-010										
							Rolled material supplied by: BMG					This is to certify that the product described with was manufactured, supplied, tested, and/or inspected in accordance with the specification and the order, and fulfills the requirements in such respect.					