

# CGSB REST RESULTS

## ram-Tough 250

### Rubberized Asphalt Membrane

Tested in accordance with CGSB 37.50 M89 as modified by OPSS 1213-1991. Tests were conducted by Warnock Hersey Professional Services Ltd. Test results are as follows:

Flash Point:

Barometric Pressure	760 mm Hg
Observed Flash Point	292°C
Corrected Flash Point (A+0.06(760-B))	292°C

Penetration (completed in six ounce cups):

Penetration @ 25°C	79.3
Penetration @ 50°C	101

Flow:

Test Duration	5 hrs
Total Flow	0 mm

Toughness:

Cross Head Speed	500 mm/min		
Chart Speed	500 mm/min		
	<u>Sample #1</u>	<u>#2</u>	<u>#3</u>
Area Under Curve (x10 <sup>-3</sup> m <sup>2</sup> )	4.67	4.57	4.76
Toughness (Joules)	9.19	9.00	9.40
Toughness to Peak Load	.042	.041	.043
Adhesion Rating	Pass	Pass	Pass

Water Vapor Permeance:

Chamber Temperature	37.8°C
Chamber Humidity	50% RH
Average Permeance	0.39 ng/Pa·s·m <sup>2</sup>

Water Absorption:

Initial Mass	210.715 g
Final Mass	210.858 g
Mass Change	0.143 g

(Cont'd over)

Pinholing:			
Pinholes Observed		None	
Low Temperature Flexibility (OPSS 1213-1991):			
Test Temperature		-23.6°C	
Observations		Sample's #1 - #5	Pass
Crack Bridging:			
Test Temperature		-26°C	
Observations		Pass	
Heat Stability - Penetration:			
Penetration @ 25°C		61	
Penetration @ 50°C		110	
Heat Stability - Flow:			
Test Duration		5 hrs	
Total Flow		0 mm	
Heat Stability - Low Temperature Flexibility:			
Test Temperature		-23.6°C	
Observations		Sample's #1 - #5	Pass
Heat Stability - Viscosity Test:			
Test Temperature		204°C	
Viscosity		7.5 secs	
Viscosity Test:			
Test Temperature		204°C	
Viscosity		9.5 secs	
1213.08.02 Oven Aged Low Temperature Flexibility:			
Test Temperature		-23.6°C	
Observations		Sample's #1 - #5	Pass