



ZENITH INDUSTRIAL RUBBER PRODUCTS PVT. LTD.
Quality Rubber Solutions

An ISO 9001:2008 Registered Company
An ISO 14001: 2004 Registered Company

TEST CERTIFICATE

Date - 30 / 11 / 2012

Head Office Address A/2 Parekh Mahal , 80 Veer Nariman Road Churchgate, Mumbai 400020 Fax : 91 22 22885111 Email : info@zenithrubber.com Website :	Factory Address Plot No C-15, C-16, C-17 MIDC Phase 1 Near Navrang Naka Dombivli (E), Dist-Thane 421203 Phone : 025164500991/92/63 Fax : +9195251 2439555
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CONSIGNEE : **ARBON AGENTUREN B.V.**

ORDER NO - SOSL12130207 MFG DATE : NOV 2012 ZIRP / SMEX12130256 / 04

ITEM DESCRIPTION : NB 80130 NBR BLACK RUBBER SHEET BOTH SIDE SMOOTH FINISH CONFORMING EN 549 -
2.00 MM X 1.40 MTR X 9.00 MTR

SAMPLE DETAILS: BLACK RUBBER SHEET BOTH SIDE SMOOTH FINISH

Specification & Test Results

As per EN 549

Visual Inspection & Measurment		Specification	Observation	Result
1	Polymer Type		NBR	
2	Length (mtr)	9.00 ± 5 %	9.20	Passes
3	Width (mtr)	1.40 ± 2 %	1.42	Passes
4	Thickness (mm)	2.00 ± 0.20	2.10	Passes
5	Classification		C2/H3	
7	Properties:			
7.1	Specific Gravity	1.33 ± 0.05	1.34	Passes
7.2	Hardness, (Sh-A)	80 ± 5	81 - 82	Passes
7.3	Tensile Strength, min (kg/cm ²)	115	120	Passes
	Elongation at Break, %	300	350	Passes
7.4	Compression Set , 25% at (70±1) °C for (168-2) h, max (%)	40	35	Passes
7.5	Resistance to aeging (For 168-2 h at 125±1 °C)			
	Change in Hardness, (Pts) Max	± 10	+ 5	Passes
	Change in Tensile Strength, %, Max	-40	-6	Passes
	Change in Elongation, %, Max	-40	-8	Passes
7.6	Resistance to gas (immerse in 98% n-pentane for 72-2 h at 23±2 °C & dry for 168-2 h at 40±2 °C)			
	Change in mass after immersion, Max	+10 / -5	+6	Passes
	Change in mass after drying, Max	+5 / -8	+1	Passes
7.7	Resistance to lubricants (immerse for 168-2 h in ASTM OIL NO.2 at 100±1 °C)			
	Change in Hardness, (Pts) Max	±10	+ 4	Passes
	Change in mass, %, Max	+15 / -10	+ 6	Passes
7.8	Resistance to ozone (For 24-0.5 h at conc.of 50±5 pphm at 30±2 °C with 20±2 % elongation)	No cracks	No cracks	Passes
8	Quantity (Rolls)		1	
9	Quantity (kg)		33	

CONCLUSION: - ABOVE MATERIAL MEETS ALL REQUIREMENT AS PER EN 549

THIS IS TO CERTIFY THAT THE WHOLE OF THE SUPPLIES DETAILED HEREON HAVE BEEN INSPECTED, TESTED AND UNLESS OTHERWISE STATED ABOVE CONFIRM IN ALL RESPECTS WITH THE REQUIREMENTS OF THE CONTRACT OF THE ORDER. THE QUALITY CONTROL ARRANGEMENTS ADOPTED IN RESPECT OF THESE.

AUTHORISED SIGNATORY

DATE: 30 / 11 / 2012