

## The INTEGRITY XB

The Integrity XB has been developed specifically for the North American market and is made to fit existing brush cleaning pigs. The brush has been designed to clean better and last longer than existing products and features a new and unique construction method with Pencil Brush Technology.

### Integrity XB Compression Testing:

- This was done using the JJ Lloyd LRX102175 Universal Testing Machine, Calibration Certificate No. 20090472 under the control of “Nexygen” software.
- The specimens were compressed to a limit of 20 mm deflection on a single bristle and the full brush face. This was done due to initial tests showing the specimen bristles passing 45° at this deflection. All bristles were loaded at approximately 25% of the bristle.

The chart below displays an attempt to cause failure in the brush using 70% of the bristle to load and deflecting to a maximum 30mm.

#### COMPRESS TO LIMIT, BRIEF REPORT

Date	Time	User	Sample	Sample Info	Batch Reference	Sample Reference
20/07/2011	10:40:55	u00238	TRUE	Sample Information	Small Tri	Thin Whole Destruct
20/07/2011	10:46:26	u00238	TRUE	Sample Information	Small Tri	Thin Whole Destruct

  

Speed	Datum Speed	Load at Limit	Deflection on Limit	Work to Limit	Maximum Load
50.000	1.0000 mm/...	516.83 N	20.000 mm	5.2160 J	517.45 N
50.000	1.0000 mm/...	4798.9 N	30.000 mm	20.494 J	4825.7 N

  

Deflection at Maximum Load	Work to Maximum Load	Stiffness
20.014 mm	5.2234 J	43124.0
30.016 mm	20.570 J	182470

Available in  
**20” to 48”**



#### URETHANE BLOCK TO HOLD BRISTLES

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Density (73°F)	1180	kg/m <sup>3</sup>	ASTM D 792
<b>Mechanical Properties</b>			
<b>ISO Data</b>			
Abrasion Resistance	40	mm <sup>3</sup>	ISO 4649

ASTM Data	Value	Unit	Test Standard
Tensile Strength	35	Mpa	ASTM D 638
Elongation at Break	420	%	ASTM D 638
Flexural Modulus	230	MPa	ASTM D 790
Modulus at 100% Elongation	20	MPa	ASTM D 412
Modulus at 300% Elongation	28	Mpa	ASTM D 412
Shore D Hardness	62	-	ASTM D 2240
Tear Strength	155	kN/m	ASTM D 624
Izod Impact Notched (Low Temp)	0.125	kJ/m	ASTM D 256
Temperature	-20	°C	ASTM D 256

#### EPOXY RESIN ADHESIVE - Typical Performance Characteristics

Color Mixed:	Purple
Cured Density (SG):	1.16
Temperature:	-50°C to +65°C depending on conditions of use
Water:	Not intended for constant immersion
Oil & Petrol:	Good Resistance
Chemicals:	Good Resistance
Sandability:	Sandable when set. Please wear dust mask.
Paintability:	Good, but confirm by test. Fine sanding helps.

