Lorbrand Composite Roll Detailed Specification Sheet

	127mm Diameter	152mm Diameter	178mm Diameter
ISO Certification		ISO 9001	ISO 9002
Manufacturing Compliance	Tests conducted in accordance with SANS 1313-3:2012	Tests conducted in accordance with SANS 1313-3:2013	Tests conducted in accordance with SANS 1313-3:2014
Manufacturing Method 1	Spun Cast Nylon	Spun Cast Nylon	Spun Cast Nylon
Shell Material 1	Composite Nylon	Composite Nylon	Composite Nylon
Bearing Housing Material 1	Reinforced Nylon	Reinforced Nylon	Reinforced Nylon
Shell Wall Thickness Material 1	10,15,20 or to specification	10,15,20 or to specification	10,15,20 or to specification
Manufacturing Method 2	Extruded HDPE	Extruded HDPE	Extruded HDPE
Shell Material 2	Composite HDPE	Composite HDPE	Composite HDPE
Bearing Housing Material 2	Reinforced HDPE	Reinforced HDPE	Reinforced HDPE
Shell Wall Thickness Material 2	10,15,20 or to specification	10,15,20 or to specification	10,15,20 or to specification
Cema Rating	Up to Cema C/E	Up to Cema D/E	Up to Cema F
Weight Reduction over Steel Rolls	Up to 60% Less	Up to 60% Less	Up to 60% Less
TIR (Total Indicated Runout) O,5mm Max	0.3 mm or less	0.3 mm or less	0.3 mm or less
Roll Max Face Length	2046mm	2452mm	2452mm
Shell Dimensional Tolerances	<= 1mm	<= 1mm	<= 1mm
Shaft Material	Mild steel (Stainless Available)	Mild steel (Stainless Available)	Mild steel (Stainless Available)
Shaft Diameter	25 to 30mm	30 to 40mm	Std 40mm or 45mm
Bearing Manufacturer	URB/LFD or customer spec	URB/LFD or customer spec	URB/LFD or customer spec
Bearing Type (Double Rubber sealed, greased for life)- 2 RS c3	6205-6306	6306-6308	6308-6309-6310
Suggested Bearing Life (Cema L10 Life @ 500rpm)	Cema C - 60 000 hrs Cema D - 60 000 hrs	Cema D - 60 000 hrs Cema E - 60 000 hrs	Cema E - 60 000 hrs Cema F - 60 000 hrs
Seal Type	Non Contact Centrifugal Seal	Non Contact Centrifugal Seal	Non Contact Centrifugal Seal
Breakaway Mass (Energy Required to cause rotation) Spec 250g Max	Avg: 72g	Avg: 72g	Avg: 72g
Running Friction (Energy Required to maintain a given RPM) Spec 4,2N Max	Ave <= 2.3 N	Ave <= 2.5 N	Ave <= 2.5 N
Noise Emission (Tested at 90% less than steel)	Ave 60% less than steel	Ave 60% less than steel	Ave 60% less than steel
Fire Retardancy Properties	Standard Material Avg V2	Standard Material Avg V2	Standard Material Avg V2
Fire Retardancy and Anti Static Properties	(NYLON ONLY) Meets and exceeds South African Fire Retardancy requirements for Underground use **(SANS 10177-Part 9).The Special FRAS roller** meets Australian standards for Anti-Static and Flame Retardancy use in Underground Mines. **AS 4606 - 2012 "Grade S fire resistant and antistatic requirements for conveyor belting and conveyor accesso**		
Dust Ingress Testing	<1% Average Mass Gain	<1% Average Mass Gain	<1% Average Mass Gain
Water Ingress Testing	<0.04% Average Mass Gain	<0.04% Average Mass Gain	<0.04% Average Mass Gain
Toxicity Index: 1-10 (5 is maximum threshold for underground use in South Africa. SANS 10177 Part 9)	2.10	2.10	2.10

NOTE: Lorbrand composite rollers are also distributed by Belle Banne Conveyor Products as the Belle Composite Roller.