

## SINTABOND TECHNICAL DATA

### 1. Material Test Data

Commercial Trade Name - Sintabond Sintercoat LLDPE

<u>Properties</u>	<u>Dimension Unit</u>	<u>Test Method</u>	<u>Typical Value</u>
<b>PHYSICAL PROPERTIES</b>			
Melt Flow	Dg/min	ISO 1133	20
Density	g/cm <sup>3</sup>	ISO 1183	0.93
<b>MECHANICAL PROPERTIES</b>			
Tensile Strength	N/mm <sup>2</sup>	ISO R527	12
Elongation at Break	%	ISO R527	310
Flexural Modulus	N/mm <sup>2</sup>	ASTM D790	470
Shore Hardness D	-	-	52
<b>THERMAL PROPERTIES</b>			
Vicat at 10N	°C	ISO 306	89
Brittleness Temperature	°C	ISO 974	Below - 50
Melting Point	°C	-	123
Softening Point	°C	-	85
<b>ELECTRICAL PROPERTIES</b>			
Breakdown Voltage	kv/mm	ASTM D149	26
Volume Resistance	ohm cm	ASTM D257	9.10 <sup>16</sup>
Dielectric constant at 1khz	-	ASTM D150	2.4
Dielectric dissipation Factor at 1khz	-	ASTM D150	1.10 <sup>-3</sup>
*Note: This refers to test data on the material and not the coating.			

2. Product Test Data

**SINTABOND**

<u>PROPERTIES</u>	<u>DIMENSION UNIT</u>	<u>TEST METHOD</u>	<u>TYPICAL VALUE</u>
<b>MECHANICAL</b>			
Adhesion	<5mm	Cross Hatch	Pass
*Impact Resistance		BS 3900 Part E3	
Direct 23°C	200kgcm		Pass
Indirect -5°C	12kgcm		Pass
Scratch Resistance	4000g	BS 3900 Part E2	Pass
**Resistance to deformation	6mm mandrel	BS 3900 Part E1	
23°C			Pass
-5°C			Pass
<b>CORROSION</b>			
Salt spray resistance	1000h	ASTM B117 scribed	Pass
Humidity Resistance	1000h	BS 3900 F2	Pass
Sulphur Dioxide Resistance	240h	BS 3900 Part F8	Pass
Weather Resistance	1000h	BS 3900 Part F3	Pass
<b>FIRE BEHAVIOUR</b>			
***Fire Propagation	Class	BS 476 Part 6	0
***Flame Spread	Class	BS 476 Part 7	1
* 0.3mm panel			
** 1mm Panel			
*** Fire Resistant (F.R.) Grade			