OVERTEC 5 FR

technical datasheet

General description

OVERTEC 5 FR is a polyamide resin specifically designed for over-moulding. It is fire retardant and has excellent electrical properties,

Components can be electrically insulated and sealed from water without the need of housing or the use of slow and wasteful 2-component casting/potting resins.

Low cost aluminium moulds can be designed to form Connectors, Grommets, and Housings for electrical and automotive components

The component or cable/s are placed in the low cost tooling and OVERTEC 5 FR is injected using a specially designed glue gun that features both accurate and adjustable temperature control to ensure consistent over-moulding..

Finished component cost, capital outlay and time to market can be reduced significantly.

Technical characteristics

Adhesive type: Synthetic polymer based hotmelt
Colour: Black and Amber
Molten tack: Very high

	12mm	15mm	43mm	CT	Bulk
Form		15mm x 250mm			Pellets
Sticks per kilo (approx)		24			N/A
Carton quantity		5kg (2x2.5kg foil bag)			10kg
Alternative pack		10 x 6 stick foil pack			n/a
Pallet weight:		500kg			1000kg
Suggested application temperature		180-230˚C			180-230˚C
Brookfield viscosity (POW-12-VISC) spindle 27		4800cps @ 190 ˚C 2300cps @ 210 ˚C			4800cps @ 190 ˚C 2300cps @ 210 ˚C
Ring & ball softening point (ASTM E28)		158˚C			158˚C
Heat resistance (BS5350 Part H3)		135˚C			135˚C
Open time		Medium			Medium
Low temperature flexibility (tg)		-35˚C			-35˚C
Dielectric constant (1Mhz)		3.5			3.5
Specific resistance		3 x 10^{12} Ωcm			3 x 10^{12} Ωcm
Dielectric strength		23 kV/mm			23 kV/mm

Tecbond Reference	Description	12mm	15mm	43mm	CT	Bulk
5	High delivery, low viscosity, long open time. Product assembly adhesive.	●		●	●	●
14	High delivery, vary fast setting packaging adhesive.	●	●	●		
1942	Product assembly adhesive for wood and many plastics.	●	●	●		
1X	Low viscosity, wood working & packaging adhesive. Medium open time.	●		●		
213	Economical, general purpose adhesive.	●	●	●		
214	Economical, fast setting, packaging adhesive.	●	●	●		
23	Medium viscosity multipurpose adhesive.	●	●	●		
232	Economical, clear, general purpose adhesive.	●	●	●		
232 Coloured	Coloured, medium open time, general purpose adhesive. Brown, Green, White, Black, Blue, Gold, Silver, Red, Yellow.	●				
232 Glitter	Multicolour, Red, Green, Silver, Gold.	●				
240	High delivery, long open time, multipurpose, clear adhesive.	●	●	●		
246	Clear and black versions, high performance, gap filling, difficult surfaces, dent pulling.	●				
260	High performance, long open time, tough, flexible adhesive.	●	●	●		
265	Long open time product assembly adhesive for smooth and shiny surfaces.			●		
267	High heat resistant, medium open time, product assembly adhesive.			●		
2169	Peelable adhesive, low tack, non-migrating, CD & credit card attachment, glue dots.				●	●
342	High viscosity, fast setting, white adhesive.	●		●		
410	Pallet stabilisation spray adhesive			●		
420	General purpose spray adhesive.			●		
425	High delivery, high performance, spray adhesive.			●		
430	High performance, long open time spray adhesive.			●		
4741	Full pressure sensitive, very aggressive, multipurpose, paper & plastic materials.				●	●
7718	Coloured, low viscosity, potting, encapsulation & knot filling / wood repair polyamide adhesive.	●	●			
7784	High temperature resistant multipurpose polyamide adhesive.	●	●	●		
7785	High temperature & chemical resistant multipurpose polyamide adhesive.	●	●	●		
9010	Reactive hotmelt. Heat & chemical resistant bonds, rigid bond, once set does not reactivate with heat.				●	
9030	Reactive hotmelt. Heat & chemical resistant bonds, flexible bond, once set does not reactivate with heat.				●	
LM44	Lowmelt, fast setting, high performance, white adhesive.	●		●		

Storage Store in a clean dry place at temperatures between 5ºC and 30ºC with boxes closed. Do not expose to direct sunlight or localised heat sources such as radiators or hot pipes.

Removal of glue Assembled components can be separated by heating assembly to a temperature slightly above the heat resistance figure.

EVA & Polypropylene: Residues of EVA and polypropylene based hotmelts can be removed from components with white spirit.

Polyamide: Residues of polyamide based hotmelt can be removed from components with acetone.

PUR: Prior to cross linking adhesive can be removed with white spirit or ketone. Once fully cross linked the adhesive cannot be easily removed.

Please note The information contained on this data sheet is for guidance only. It is the result of careful laboratory evaluations by trained and qualified staff using British Standard or similar test methods. However, no warranty is expressed or implied regarding the accuracy of the data or the suitability of the adhesive for any specific purpose. In every case, we strongly recommend that the user shall make their own test to determine to their own satisfaction the suitability of the adhesive for their particular purpose. Neither the seller nor manufacturer shall be liable for any injury, loss, damage, direct or consequential arising out of the use or inability to use the product. Further information is always available to help solve your adhesive problems. Should you require any further information on our adhesives please contact your nearest distributor.

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