POLYURETHANE RESIN SYSTEM PU238

SPECIFICATION



The PU238 resin system has been specifically developed for the encapsulation of electronics, light electrical applications and cable joints. The system is available in a number of formats for delivery but the acclaimed twinpack system is the preferred method of supply for the cable joint kit. The resin and supply method offers the following benefits for the specifier and end user: -

- NO WASTAGE, EACH CABLE JOINT KIT COMES WITH A PRE-DETERMINED PACK SIZE OR COMBINATION OF PACKS TO SUIT THE SIZE OF CABLE JOINT INSTALLATION BEING UNDERTAKEN.
- NO MESS EASY TO USE 'MIX IN THE BAG' SYSTEM.
- PRE-FILLED PACKS ENSURE THE CORRECT MIX RATIO EACH TIME.
- TWINPACK SYSTEM REMOVES THE OPERATOR FROM THE RAW MATERIALS DURING THE MIXING PROCESS HELPING FROM THE HEALTH AND SAFETY POINT OF VIEW.
- RESIN SYSTEM CURRENTLY UNDER TEST TO BS7888.

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POLYURETHANE RESIN - PU238

This is a two part polyurethane system primarily designed for electrical encapsulation.

The resin and hardener are mixed in the ratio:-
5.3 : 1 By weight.

COLOUR OF MIXED SYSTEM	Beige
DENSITY OF RESIN	1.44
DENSITY OF HARDENER	1.23
DENSITY OF MIXED SYSTEM	1.41
VISCOSITY OF RESIN	4800 - 5000cps spindle 6 @ 25ºC
VISCOSITY OF HARDENER	180 - 240cps spindle 6 @ 25ºC
VISCOSITY OF MIXED SYSTEM	3000 - 3300cps spindle 6 @25ºC
POT LIFE	15 - 20 minutes 0.5 litre @ 25ºC
GEL TIME	20 - 25 minutes 0.5 litre @ 25ºC*
FULL CURE	48 hours @ 25ºC
PEAK EXOTHERM	60 - 65ºC [a]150g mass)
SHORE D HARDNESS AFTER 24 HOURS AT ROOM TEMPERATURE	A: 60 B: 55

*** Gel time is very much dependent upon ambient temperature and mixing time.**

CHARACTERISTICS OF MIXED SYSTEM	
TEAR STRENGTH	10 N/mm^2
TENSILE STRENGTH	12 N/mm^2
ULTIMATE ELONGATION	3%
VOLUME RESISTIVITY	10^{10} Ohms mm
SURFACE RESISTIVITY	10^{10} Ohms mm
THERMAL CONDUCTIVITY	0.9W/(mºC)
MAXIMUM CONTINUOUS OPERATING TEMPERATURE	80ºC
DIELECTRIC STRENGTH	10KV/mm
WATER ABSORBTION RATE	10mg @ 25ºC, 24 hours 1000mg @ 50ºC, 42 days
ADHESIVE STRENGTH TO PVC	4 N/mm^2
ADHESIVE STRENGTH TO XLPE	2 N/mm^2
ADHESIVE STRENGTH TO LEAD	10 N/mm^2
ADHESIVE STRENGTH TO ALUMINIUM	11 N/mm^2
ADHESIVE STRENGTH TO COPPER	11 N/mm^2

CLEANING EQUIPMENT

All equipment should be cleaned before the compound has hardened.

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