Fiberglass (A/Asia) Sales Pty Ltd

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TECHNICAL DATA SHEET

6060 LSE

PRODUCT CODE		**Gel time , mins**
N38555251	6060-75 LSE WH	70-80 *
N38555263	6060-30 LSE	25-35 *
N38555264	6060-45 LSE	40-50 *
N38555265	6060-60 LSE	55-65 *
N38555270	6060-75 LSE	70-80 *
N38555272	6060LFGT LSE	>90 *
N38588273	6060-2-50 LSE	55-65 #

* TP 228.31 100g + 1.0ml MEKP Curox M200
# TP 228.31 100g + 2.0ml MEKP Curox M200

6060 LSE is a promoted orthophthalic laminating resin exhibiting low styrene emission. This grade shows excellent glass fibre wet out and is designed for use in general spray depositing and hand lay up. Long green time, low exotherm and low colour in thick sections make this resin ideal for large structures or multiple laminates.
6060-75 LSE WH is pigmented white.

6060 LSE contains an ingredient which reduces styrene emission during lamination and in the period prior to gelation. Low styrene emission resins alone will not enable the moulder to comply with the recommended atmospheric styrene levels, but with appropriate ventilation, these resins may assist in reducing the level of styrene in the workshop to which workers are exposed. Tests carried out to TP 261.2 (Interlaminar adhesion) show no loss in adhesion after one day delayed lay-up.

LIQUID RESIN PROPERTIES

		Test Method
Appearance	Opaque Blue, Clean	TP 202.8
Viscosity (25°C), cps 5 RPM Spindle 3 50 RPM Spindle 3	 ≥ 1800 700 - 1000	TP 201.24
Volatile Content, %	40 - 43	TP 200.25
Styrene Emission, g/m²	<20	TP 261.4
Stability without initiator	>6	months

Typical physical properties of cast unfilled resin

Test	Result	Test Method
Barcol Hardness (GYZ 934-1)	40	EN 59
Tensile strength, MPa	56	ISO R527
Tensile strength after immersion in boiling water for two hours MPa	43	ISO R527
Flexural strength, MPa	78	ISO 178
Flexural strength after immersion in boiling water for two hours, MPa	70	ISO 178
Tensile Modulus, GPa	4	ISO R527
Tensile modulus after immersion in boiling water for two hours GPa	3	ISO R527
Flexural modulus, GPa	4	ISO 178
Flexural modulus after immersion in boiling water for two hours, GPa	3	ISO 178
Elongation at break %	2	ISO R527
Heat deflection temperature (1.8MPa),^{o}C	58	ISO 75
Water absorption: one day mg seven days, mg	 15 22	 ISO 62 ISO 180

*Cast resin was prepared as laid down in BS 3532 using 1% MEKP. Cured at room temperature for sixteen hours then post cured for two hours at 80^{o}C followed by two hours at 100^{o}C.

Typical physical properties of glass mat laminates

Test	Result	Test Method
Tensile strength, MPa	105	ISO 3268
Tensile Strength after immersion in boiling water for two hours, MPa	100	ISO 3268
Flexural Strength, MPa	182	ISO 178
Flexural Strength after immersion in boiling water for two hours, MPa	175	ISO 178
Tensile modulus, GPa	9	ISO 3268
Tensile modulus after immersion in boiling water for two hours, GPa	7	ISO 3268
Flexural modulus, GPa	7	ISO 178
Flexural modulus after immersion in boiling water for two hours, GPa	7	ISO 3268
Water absorption one day, mg seven days, mg	 22 35	 ISO 62 ISO 62
Impact strength, J	>13.5	ISO 180

*Chopped strand mat laminates containing three plies of 450gm^{2} E-glass with a resin to glass ratio of 2.25:1. Cured at room temperature for sixteen hours then post cured for two hours at 80^{o}C followed by two hours at 100^{o}C.