

0260

High performance vinylester SMC

Technical Data Sheet (1)

Update : December 2018

Description :

0260-01 is a high mechanical performance SMC based on vinylester resin and reinforced with high ratio of chopped glass fibres (25 mm).
0260-01 is suitable for structural parts moulding.

Moulding features (*) :

| | Unit | | Test method |
|------------------|------|-------|-------------|
| Reactivity | | | ISO 12114 |
| • Moulding T°C : | °C | 145 | |
| • Thickness : | mm | 2,9 | |
| • Exotherm end : | s | 40 | |
| Density | | 1,95 | NFT 51063 |
| Shrinkage | % | -0,02 | NF EN 1842 |

(*) Compression moulding without flow

Use recommendations :

Compression molding
High temperature around 150°C under high pressure : 100 to 120 bars.

Application :

Structural parts.

MECHANICAL PROPERTIES WITHOUT FLOW AT 23°C

| Moulding conditions | | | |
|-------------------------|-------------------|---------|-------------|
| Temperature | °C | 145 | |
| Thickness | mm | 3 | |
| Cure time | sec | 120 | |
| Covering | % | 100 | |
| Part size | mm | 250X120 | |
| Layers | | 2 | |
| | Unit | | Test method |
| Flexural test (1) | | | |
| - Breaking stress | MPa | 405 | ISO 178 |
| - Elastic modulus | MPa | 17300 | |
| - Deviation at break | mm | 4,4 | |
| Impact test (Charpy)(1) | | | |
| | kJ/m ² | 144 | ISO 179 |
| Tensile test (1) | | | |
| - Breaking stress | MPa | 190 | ISO 527 |
| - Elastic modulus | MPa | 17600 | |
| - Elongation at break | % | 1,9 | |

(1) Data based on 5 industrial production batches

COMPOSITION

| Product nature | Unit | Ratio |
|------------------------|------|-------|
| Glass fibres content | % | 50 |
| Resins content | % | 24 |
| Fillers content | % | 24 |
| Other products content | % | 2 |

APPEARANCE

| | Unit | |
|--------------------|-------------------|---------------|
| Rolls : | kg | 600/1500 |
| SMC width : | cm | 150 |
| Material support : | - | Coex PE/PA |
| Surface weight : | kg/m ² | 3,25 |
| Colour | | Not pigmented |

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Reactivity :

The reactivity datas below are given as a technical information

