



RenPaste™

Seamless Modelling Pastes

Pastes for Manual Application



RenShape®
solutions

HUNTSMAN

RenPaste™ Product Range

Seamless Modelling Pastes

| Product Description Machine applied epoxy pastes | XD 4601-1 A/B | SV/HV 4503-1 | XD 4591 R/H | XD 4618 R/H | XD 4616 R/H |
|---|--|---|---|---|---|
| Key Characteristics | Low density very easy to cut - even with hand tools | Medium density, with good milling properties and fine surface finish | For applications where the finest surface finish is required | Specially formulated to produce very large models | Combines high mechanical properties with heat resistance |
| Typical Applications | Styling models | Reference models | Reference models | Boat Plugs | Tooling applications |
| Key Properties - typical values | | | | | |
| Colour | Light Brown | Brown (Grey XD 4563-1) | Red-Brown | Light Grey | Light Grey |
| Density (g/cm³) | 0.55 | 0.75 | 1.18 | 0.90 | 1.23 |
| Ratio | 1 : 1 | 1 : 1 | 1 : 1 | 2 : 1 | 1 : 1 |
| Hardness - Shore D | 40 | 55 - 60 | 65 - 75 | 70 - 75 | 75 - 80 |
| CTE (Dilatometer) 10⁻⁶/°K | 106 | 106 | 85 - 90 | 45 - 50 | 80 - 85 |
| Tg (TMA) °C | 37 | 46 (72) | 68 (80) | 37 (61*) | 62 (87) |
| Heat Distortion (ISO 75) °C | 45 - 50 | 42 (54) | 70 - 72 | 53 | 72 |
| Compression MPa | 8 | 11.5 (15) | 53 (60) | 63 | 48 (57) |
| Tensile MPa | 5 | 8 (9) | 22 (24) | 24 | 22 (26) |
| Flexure MPa | 6.5 | 11 (12) | 32 (42) | 36 | 39 (47) |
| Cure Schedule | RT cured (Post cured: 8h @ 80°C / *70°C) | | | | |
| | RT curing - milling after 1 - 2 days | RT curing - milling after 1 - 3 days | RT curing - milling after 1 day | RT curing - milling after 2 days | RT initial cure - milling after 1 day. Post cure for optimum values |

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