notedome™ URETHANE SYSTEMS

TECHNICAL DATA SHEET

# NEUTHANE 803 D SERIES

MDI – Ether Quasi System (Shore D)

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## Processing

- The POLYOL component should be thoroughly mixed prior to use as separation may have occurred during storage
- Add pigments and Antifoam (as applicable) to the polyol whilst mixing
- Add ISO component and thoroughly mix ensuring that no unmixed material is left on the container sides (if necessary the mix can be transferred to a second clean container and mixed again)
- Remove air under vacuum
- Cast into moulds, preheated to the recommended temperature
- Cure as recommended

| NEUTHANE GRADE | | 803/60D | 803/75DV2 | 803/83DV2 |
|---|---|---|---|---|
| Mix Ratio NEUTHANE 803 ISOD | by weight | 100 | 100 | 100 |
| Mix Ratio NEUTHANE 803 Polyol Grade | by weight | 180.6 | 115 | 95 |
| NEUTHANE 803 ISOD - Operating Temperature | °C | 30 | 30 | 30 |
| NEUTHANE 803/83DV2 – Operating Temperature | °C | 30 | 30 | 30 |
| Viscosity @ 25°C – NEUTHANE 803 ISOD | cPs | 180 | 180 | 180 |
| Viscosity @ 25°C – NEUTHANE 803 Polyol Grade | cPs | n.a | 850 | 2000 |
| Recommended Mould Temperature | °C | 110-120 | 110-120 | 110-120 |
| Pot life (on a 500g mix) adjustable with catalyst | minutes | 8-10 min | 15 min | 8-12 min |
| Demould time | minutes | 30 | 30 | 30 |
| Recommended Cure Temperature / Time | °C / hrs | 80 / 16 | 80 / 16 | 80 / 16 |

| | | | | | |
|---|---|---|---|---|---|
| Hardness | ISO 48-4 | Shore A | - | - | - |
| | ISO 48-4 | Shore D | **60** | **75** | **83** |
| Impact Strength | ISO 180/1 A (Notched) | kJ / m² | 20.2 | 8.5 | 5.2 |
| HDT | ISO75-1 | °C | 29 | 50 | 64 |
| Tensile Strength | ISO 37 | lb/in² (MPa) | 2850 (22.0) | 6190 (43.0) | 9530 (65.7) |
| Tear (Die C) | ISO 34-1 | lbf/in (kN/m) | 370 (64.5) | 820 (143.0) | - |
| Tear Trouser | ISO 34-1 | lbf/in (kN/m) | 70 (12.2) | 120 (21.0) | - |