

AME-3D

REACTION INJECTION MOULDING (RIM) TECHNICAL PACK



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RIM CASTING



TECHNICAL SPECIFICATION

QUANTITY

Silicone Mould - Up to 50 | Hard Tooling - Up to 1000

Tolerances

+ / - 0.3% geometry dependent

Wall Thickness

Min. 3 mm

Letters & Logos

Width = 2x height min.

Gap between raised & recessed letters

Min. 1.27 mm

Materials

AME 3829
AME 3838



MATERIAL	AME 3829	AME 3838
Description	A robust two-component polyurethane material that can be turned into bulk filler for the composite or construction industry at end of life.	Ideal for rapid prototyping and low volume production runs.
Available Colours	Black / Beige	Black
Rigid	x	x
High Temp.	x	x
Shore Hardness	82 - 86D	80 - 84D
Tensile Strength	43 - 47 MPa	35 - 40 MPa
Flexural Strength	63 - 67 MPa	53 - 58 MPa
Flexural Modulus	1,400 - 1,600 MPa	2,200 - 2,400 MPa
Heat Deflection Temp.	82 - 86° C	103 - 128° C
Elongation Break	5 - 7%	2.5 - 4%



AME 3829



Reaction Injection Moulding
(RIM)
Material Datasheet



Simulates thermoplastics like ABS and polypropylene. Ideal for robust base units and under bonnet components.

Measurement	Value
Shore Hardness	82 - 86D
Tensile Strength	43 - 47 MPa
Tensile Modulus	-
Flexural Strength	63 - 67 MPa
Flexural Modulus	1,400 - 1,600 MPa
Heat Deflection Temp.	82 - 86° C
Elongation Break	5 - 7%

Actual values may vary depending on build conditions.
Our technical team can advise.

Image TBC

AME 3838



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Measurement	Value
Shore Hardness	80 - 84D
Tensile Strength	35 - 40 MPa
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Flexural Modulus	2,200 - 2,400 MPa
Heat Deflection Temp.	103 - 128° C
Elongation Break	2.5 - 4%

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Our technical team can advise.