

Huntsman Advanced Materials

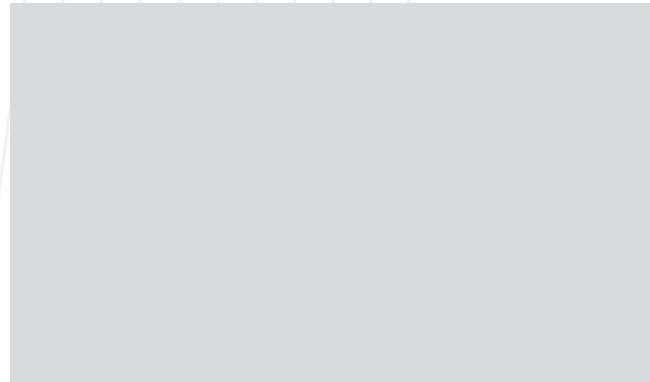
Our Advanced Materials division is a leading global chemical solutions provider with a long heritage of pioneering technologically advanced epoxy, acrylic and polyurethane-based polymer products.

Our capabilities in high-performance adhesives and composites, delivered by more than 2300 associates, serve over 3000 global customers with innovative, tailor-made solutions and more than 1500 products which address global engineering challenges.

Global presence – 13 manufacturing sites



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Ref. No. AdMat Board materials selector guide 10.12_EN_EU

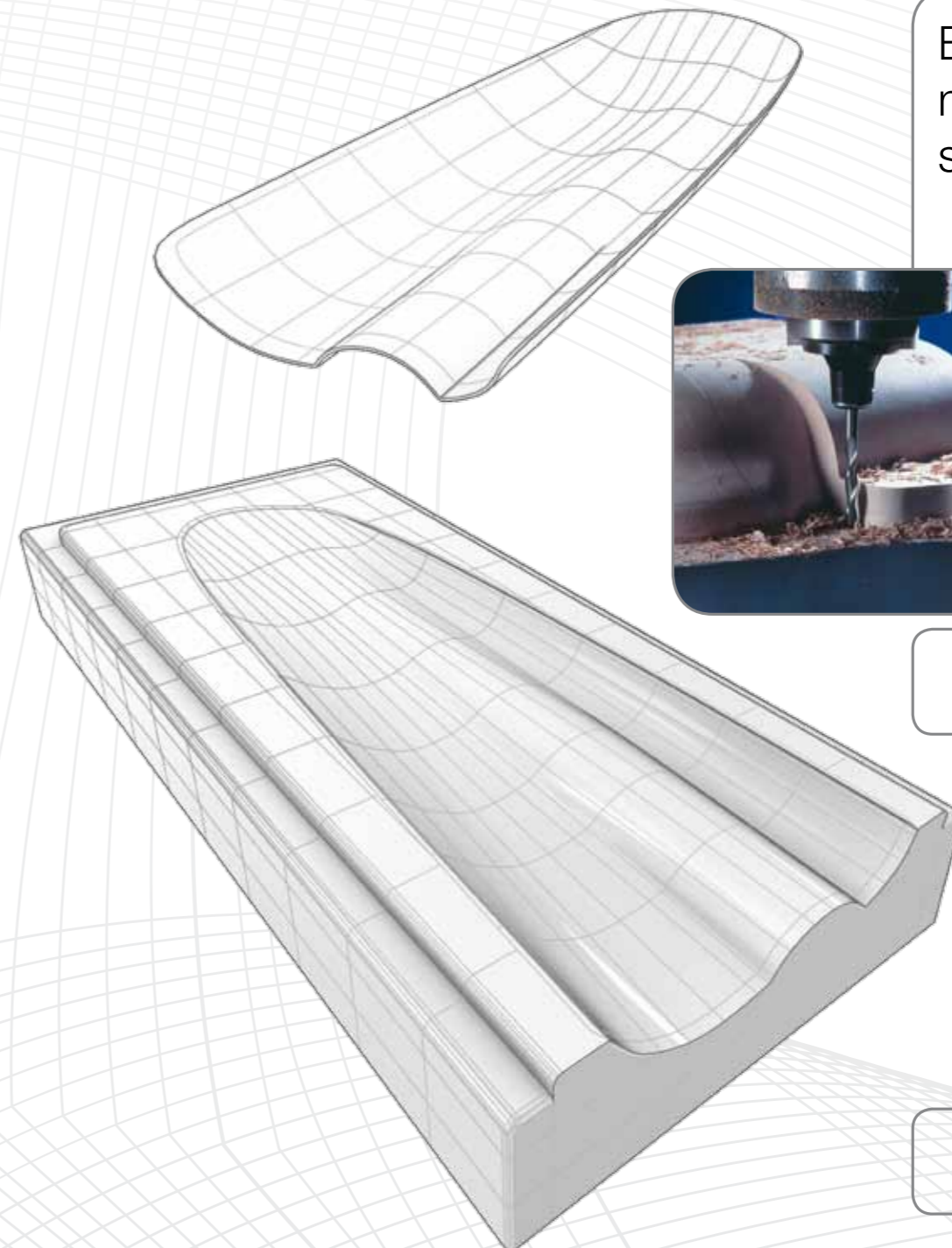


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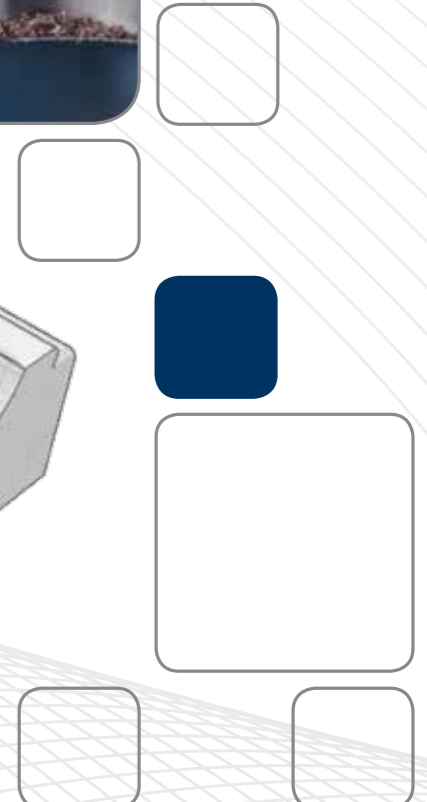
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Advanced Materials

Systems for the production of master models / plugs





Board materials selector guide





Board materials, bonding adhesives and repair

Styling and modeling

Product designation	Typical application	Color	Density	Coefficient of thermal expansion	Deflection temperature	Flexural strength	Compressive strength	Compressive modulus	Hardness		Standard bonding	Mix ratio	Fast bonding	Mix ratio	Repair system
Norm				ISO 11359	ISO 75	ISO 178	ISO 604	ISO 604	ISO 868						
Unit			g/cm ³	10 ⁻⁶ K ⁻¹	°C	MPa	MPa	MPa	Shore D						
RenShape® BM 5108	styling	white	0.08	-	-	-	-	-	-		RenPaste® SV 36 / Ren® HY 5162	100 : 35	RenCast® FC 52 Polyol / RenCast® FC 52/53 Isocyanate	100 : 100	XW 5184 / XW 5130
RenShape® BM 5025	styling	grey	0.25	60 - 70	60	5.5	3.7	140	-		RenPaste® SV 427-2 / Ren® HY 5162	100 : 35	RenCast® FC 52 Polyol / RenCast® FC 52/53 Isocyanate	100 : 100	XW 5184 / XW 5130
RenShape® BM 5185	modeling	apricot	0.45	60 - 65	60 - 70	10 - 15	10 - 15	500 - 600	-		RenPaste® SV 427-2 / Ren® HY 5162	100 : 35	RenCast® FC 52 Polyol / RenCast® FC 52/53 Isocyanate	100 : 100	XW 5184 / XW 5130
 RenShape® BM 5440	master and data control models	brown	0.5	50 - 55	75 - 80	15 - 20	15 - 20	600 - 700	55 - 60		RenPaste® SV 427-2 / Ren® HY 5162	100 : 35	RenCast® FC 52 Polyol / RenCast® FC 52/53 Isocyanate	100 : 100	XW 5184 / XW 5130
 RenShape® BM 5460	master and data control models	brown	0.7	50 - 55	75 - 80	25 - 30	25 - 30	1 250 - 1 350	60 - 65		RenPaste® SV 427-2 / Ren® HY 5162	100 : 35	RenCast® FC 52 Polyol / RenCast® FC 52/53 Isocyanate	100 : 100	XW 5184 / XW 5130

Tooling

 RenShape® BM 5055	prepreg lay-up tools	green	0.72 - 0.75	35 - 45	135 - 140	30 - 40	50 - 55	2 300 - 2 400	75		XB 5055 A+B	100 : 15	-	100 : 100	repair with adhesive-bonded insert XB 5055 A+B
RenShape® BM 5066	jigs and fixtures	beige	1	55 - 60	75 - 80	55 - 60	55 - 60	2 600 - 2 800	75 - 80		Araldite® AW 106 / HV 953 U or Araldite® 2011	100 : 80	Araldite® AW 2101 / HW 2951 or Araldite® 2012	100 : 100	repair with adhesive-bonded insert Araldite® AW 2101 / HW 2951
RenShape® BM 5172-1	foundry pattern	green	1.2	75 - 80	75 - 80	75 - 80	90 - 100	3 100 - 3 200	80 - 85		Araldite® AW 106 / HV 953 U or Araldite® 2011	100 : 80	Araldite® AW 2101 / HW 2951 or Araldite® 2012	100 : 100	repair with adhesive-bonded insert Araldite® AW 2101 / HW 2951
RenShape® BM 5112-2	hammer forming	grey	1.5	55 - 60	80 - 85	100 - 110	90 - 100	4 800 - 5 000	80 - 85		Araldite® AW 106 / HV 953 U or Araldite® 2011	100 : 80	Araldite® AW 2101 / HW 2951 or Araldite® 2012	100 : 100	repair with adhesive-bonded insert Araldite® AW 2101 / HW 2951
RenShape® BM 5166	jigs and metal sheet forming	ivory	1.6	45 - 50	75 - 80	55 - 65	90 - 100	7 000 - 7 500	85 - 90		Araldite® AW 106 / HV 953 U or Araldite® 2011	100 : 80	Araldite® AW 2101 / HW 2951 or Araldite® 2012	100 : 100	Araldite® AV 5308 / HV 5309-1 or Araldite® 2015

 Selected and recommended products for COMPOSITE TOOLING