

DENATITE



NAGASE

EPOXY RESIN for Aeronautics



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For RTM / Infusion

Product name	Key Features
XNR/H 6809	Standard type
XNR6840V	VaRTM(Infusion) type of XNR6840 *product under development

For Prepreg

Product name	Key Features
XNR/H 6842	Standard type
XNR6840P	Prepreg type of XNR6840 *product under development

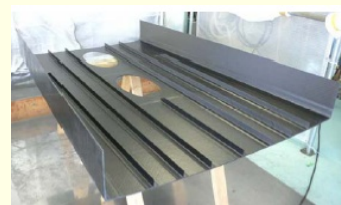


Figure1:Hybrid molding(Prepreg & VaRTM)

For Adhesive

Product name	Key Features
XNR6852F	Film sheet type, High toughness, High elongation



Figure2 :Film sheet adhesive

For Groove filling

Product name
XNR/H 6951-3

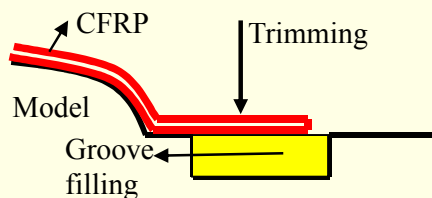


Figure3 :Groove filling and trimming

For Honeycomb Structure -Low density epoxy compound-

Product name
XNR/H 6950



Figure4 :Low density epoxy compound

For Interior -Lighting system-

Product name
XNR6830/H6841



Figure5 : Burning test(Before & After)



Figure6 : Image of light cover

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EPOXY RESIN for Aeronautics

For RTM / Infusion

	Viscosity (mPa·s) at 25°C Resin / Hardener / Mixture	Mix ratio R : H (wt%)	Work time (min) 25°C / 40°C / 60°C	Gel time (min) 60°C / 80°C	Curing requirement	
XNR/H 6809	800 / 80 / 260	100 : 95	- / 140 / 60	'- / 90	6h 80°C + 2h 120°C	
XNR6840V(P)	- / - / 130 (at 120°C)	-	120(at 120°C)	100(at 150°C)	5h 150°C + 5h 200°C	
Standard Unit	Tensile strength / Modulus / Elongation ISO 527-1 at 25°C N/mm2 / Gpa / %		Flexural strength / modulus ISO178 at25°C N/mm2 / Gpa	Compressive strength/modulus ISO604 at 25°C N/mm2 / Gpa	Impact strength ISO179 25°C KJ/m2	Tg DSC °C
XNR/H 6809	86 / 3.3 / 5.0		135 / 3.2	115 / 3.1	27	115
XNR6840V(P)	- / - / -		160 / 4.0	' 190 / 4.0	-	195

For Prepreg

	Viscosity (Pa·s) at 25°C Resin / Hardener / Mixture	Mix ratio R : H (wt%)	Work time (min) 25°C / 40°C / 60°C	Gel time (min)	Curing requirement	
XNR 6842	1200 / /	-	- / - / -	65min(110°C)	2h 110°C + 5h 150°C	
Standard Unit	Tensile strength / Modulus / Elongation ISO 527-1 at 25°C N/mm2 / Gpa / %		Flexural strength / Modulus ISO 178 at25°C N/mm2 / Gpa	Compressive strength/modulus ISO 604 at 25°C N/mm2 / Gpa	Impact strength ISO 179 25°C KJ/m2	Tg DSC °C
XNR 6842	63 / 2.0 / 15		102 / 2.5	84 / 2.4	150	102

For Adhesive

	Form	Thickness (μm)	Work time (min) 25°C / 40°C / 60°C	Curing requirement		
XNR6852F	Non-woven scrim	120~130	- / - / -	8hr/110°C, 3hr/120°C, 1hr/150°C		
Standard Unit	Single Lap Shear Strength ISO4587 at 25°C N/mm2		T-Peel Strength ISO11339 at25°C N/25mm	Compressive strength/modulus ISO604 at 25°C N/mm2 / Gpa	Impact strength ISO179 25°C KJ/m2	Tg DSC °C
XNR6852F	21		93	- / -	-	100

For Groove filling / Honeycomb Structure / Mould

	Viscosity (Pa·s) at 25°C Resin / Hardener / Mixture	Mix ratio R : H (wt%)	Work time (min) 25°C / 40°C / 60°C	Gel time (min) 60°C / 80°C	Curing requirement	
XNR/H6951-3	408 / 80 / 300	100:22	30 / /	160 min (at 25°C)	24h 25°C + 5h 50°C	
XNR/H6950	208 / 192 / 330	100:50	- / 160 / 60	- / -	4h 80°C + 2h 120°C + 6h 180°C	
XNR6830/H6841	10/0.55/6.3	100:160	/ /	- / 30	85°C 45min + 130°C 1h	
Standard Unit	Tensile strength / Modulus / Elongation ISO 527-1 at 25°C N/mm2 / Gpa / %		Flexural strength / Modulus ISO 178 at25°C N/mm2 / Gpa	Compressive strength/modulus ISO604 at 25°C N/mm2 / Gpa	Impact strength ISO 179 at 25°C KJ/m2	Tg DSC °C
XNR/H6951-3	/ /		/	68 / 2.1	-	85
XNR/H6950	/ /		/	95 / 2.4	-	208
XNR6830/H6841	/ /		131 / 3.3	-	17	92

What do you expect our products? High Tg? High CAI property? etc.
Please contact us and tell your request. We are going to make our product improve!

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