

1.General											
1) Grade		SCR701	SCR710	SCF	R735	SCR740	SCR11120				
2) Material type		Ероху	Ероху	Ероху		Ероху	Ероху				
3) Equipment model		SCS-2000, others	SCS-2000, others	SCS-8000, others		SCS-8000, others	SCS-8000, others				
4) Laser		Ar/solid-state	Ar/solid-state	Solid-state		Solid-state	Solid-state				
5) Characteristics		General use, moisture resistant	High toughness	High heat resistance, high toughness		Ultra-high heat resistance	Crystal clear				
6) Post-cure		Not needed	Not needed	Not needed /or heating		Heating	Not needed				
2.Liquid resin properties											
1) Threshold exposure: Ec	mJ/cm ²	33	13	2	3	16	12				
2) Penetration depth: Dp	μm	191	135	10	60	120	160				
3) Viscosity (25°C)	Pa•s	0.34	0.5	0.	47	0.43	0.26(30℃)				
4) Density(25°C)	g /cm²	1.13	1.19	1.	13	1.13	1.12				
3.Physical properties of hardened substance (after post-cure for types that require it.)											
1) Tensile strength	MPa	75	66	non-postcure 45	postcure 67	62	47				
2) Young's modulus	MPa	3300	2700	2510	2720	3000	2650				
3) Elongation at break	%	6	10	6.8	6.0	3	20				
4) Flexural strength	MPa	104	85	83	97	110	63				
5) Flexural modulus	MPa	3100	2500	2530	2570	2800	2040				
6) Izod impact strength	J/m	25~27	32~38	29~33	34~39	29	30				
7) Hardness (durometer D)		87	81				81				
8) Self-tapping property		×	0	0	0		0				
9) HDT (heavy load) *Glass transition temp. (Measurement method)	. i	HDT=53°C Tg=82°C (DMA)	HDT=49°C Tg=78°C (DMA)	HDT=48℃ Tg=90℃	HDT=85℃ Tg=110℃	HDT=100℃ Tg=135℃	HDT=46℃ Tg=43℃				
4.Other											
1) Safety F	Hazard	Non-hazardous substance Deleterious substance	Non-hazardous substance Deleterious substance	Non-hazardous substance Deleterious substance		Non-hazardous substance Deleterious substance	(Class 3, No. 4 mineral) Deleterious substance				
2) Remarks											

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1.General											
1) Grade		SCR751	SCR950	SCR9100	SCR9120	SCR802					
Material type		Ероху	Oxycetane	Ероху	Ероху	Ероху					
3) Equipment model		SCS-1000HD	SCS-1000HD	SCS-8000, others	SCS-8000, others	SCS-2000, others					
4) Laser		He-Cd	He-Cd	Solid-state	Solid-state	Ar/solid-state					
5) Characteristics		General use, moisture resistant	High sensitivity, high toughness	Ultra-high toughness	Ultra-high toughness	For direct mold					
6) Post-cure		Not needed	Not needed	Not needed	Not needed	Heating					
2.Liquid resin properties											
1) Threshold exposure: Ec m	J/cm ²	20	5	6.8	10.9	9					
2) Penetration depth: Dp	μm	139	79	130	140	152					
3) Viscosity (25°C)	Pa•s	0.36	0.59	0.56 (30℃)	0.45 (30℃)	4.8					
4) Density(25°C) g	/cm ²	1.13	1.10	1.11	1.13	1.59					
3.Physical properties of hardened substance (after post-cure for types that require it.)											
1) Tensile strength	MPa	80	51	28~32	30~32	85					
2) Young's modulus	MPa	3400	2000	1100~1400	1200~1500	9200					
3) Elongation at break	%	5	8	14~17	15~25	2					
4) Flexural strength	MPa	115	75	42~62	41~46	120					
5) Flexural modulus	MPa	3300	2600	1200~1500	1300~1500	8900					
6) Izod impact strength	J/m			32~43	48~53						
7) Hardness (durometer D)		88	85			92					
8) Self-tapping property	 		0	0	0						
9) HDT (heavy load) *Glass transition temp. (Measurement method)		HDT=56℃ Tg=108℃ (DMA)	HDT=64℃ Tg=121℃ (DMA)	HDT=60~65℃ —	HDT=52~61℃ —	HDT=~250℃ Tg=133℃ (DMA)					
4.Other											
1) Safety Ha	azard	Non-hazardous substance Deleterious substance	(Class 3, No. 4 mineral) Deleterious substance	(Class 3, No. 4 mineral) Deleterious substance	(Class 3, No. 4 mineral) Deleterious substance	Non-hazardous substance Deleterious substance					
2) Remarks											

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