

GR920 Series

Technical Data Sheet

Hysol Huawei Electronics Co., Ltd.
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| GR920 Product Line

Grade	GR920 H	GR920 Q	GR920 M	GR920 L	GR920 A
Benchmark	-	-	-	-	-
PKG	FCLGA	FCCSP/FCLGA	FCCSP	FCBGA	FCCSP
Feature	Good flow ability Low modulus	Good flow ability Low modulus Medium Tg	Low modulus Low Shrinkage Low CTE	High Tg Low Shrinkage Low CTE	Good flow ability High Tg Low Shrinkage Low CTE
Filler content/%	84	85	88.5	88	87.5
Filler cut size/um	20	20	20	20	20
Filler shape	Spherical	Spherical	Spherical	Spherical	Spherical
MSL	2	3	3	3	3

| Property Comparison

Item	unit	GR920 H	GR920 Q	GR920 M	GR920 L	GR920 A
SF	Inch	60	56	39	36	66
GT	S	38	39	37	34	46
CTE1	ppm/ °C	13	12	10	9	9
CTE2	ppm/ °C	45	45	35	33	34
Tg	°C	102	138	120	158	150
F.Strength(25°C)	MPa	125	146	120	154	138
F.Modulus(25°C)	GPa	135000	15500	19500	17800	21000
Shrinkage(After PMC)	%	0.36	0.26	0.13	0.2	0.19
Water absorption (PCT24h)	%	0.4	0.35	0.3	0.3	0.38
Specific gravity	-	1.93	1.96	1.99	1.99	1.98
Cl-	ppm	7	7	8	7	9
pH	-	4.5	5.1	6.5	6.1	6.3

Thanks !