

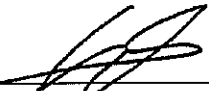
Certificate of Analysis

To: LUMILEDS SINGAPORE PTE LTD

Shin-Etsu Chemical Co., Ltd. Gunma Complex
2-13-1, Isobe, Annaka-shi, Gunma, Japan

Product Name SWC-7200UF-T20*1.9
Lot No. 509554
Part No. 324700010780
Invoice No. 857-2551042497
Quantity 12.16kg
Analysis Date 2025/10/10
Customer Order No. SEC202512085
Manufacture Date 2025/09/09
Expiration Date 2026/09/08
Issue No. D5320260125233002-1-01

No Test Item	Unit	Test Result	Specification
1 Tablet :Diameter	mm	19.9	19.8 ~ 20.0
2 Tablet :Height	mm	3.5	3.3 ~ 3.7
3 Tablet :Weight :Max	g	2.0	2.02 $\geq$
4 Tablet :Weight :Min	g	1.8	1.78 $\leq$
5 Tablet :Weight	g	1.9	1.85 ~ 1.95
6 Apparent Density	%	92.3	88 $\leq$
7 Spiral Flow :175°C	inch	23	16 ~ 26
8 Gelation Time :175°C	s	18	18 ~ 26
9 Flow Viscosity :175°C	Pa·s	81	75 ~ 130
10 Flash Length :30 μ m :175°C	mm	35	20 $\leq$
11 Hardness		85	72 ~ 90
12 Compression Test		Pass	Pass
13 Specific Gravity :25°C		1.94	1.92 ~ 1.96
14 Coeff. of Thermal Expansion :80-130°C	E-5/°C	2.5	2.2 ~ 3.2
15 Flexural Strength	N/mm ²	45	35 ~ 65
16 Flexural Modulus	N/mm ²	8600	7800 ~ 10200
17 Volume of Gelled Particles :200mesh	%	0.0	0.003 $\geq$


SHOICHI OSADA
Research Manager

Shin-Etsu No. : 35332263-01-01

Issue:
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Judgment:
Shin-Etsu Chemical Co., Ltd.
Silicone Electronics Material Research Center