

	RM-SPECIFICATION Material : Glass to metal seal Item Code: Purpose : Insulation		DOCUMENT STATUS
			DRAFT
MATERIAL CODE:	I12	DOCUMENT NO.	

S.no	Description	UOM	Specification
1.	Physical State / Color	-	Blue
2.	Assay Content	%	NA
3.	Grade	-	NA
4.	Coefficient Thermal Expansion (30 ⁰ - 300 ⁰ C)	cm/cm/ ⁰ C	85 to 96 x 10 ⁻⁷
5.	Density (Specific Gravity)	gm/cm ³	2.44 to 2.7
6.	Softening Point (10 ^{7.6} Poise)	⁰ C	640 - 690 ⁰ C
7.	Annealing Point (0 ¹³ Poise)	⁰ C	465 - 480 ⁰ C
8.	Working Point	⁰ C	980 - 1020 ⁰ C
9.	Strain Point [10 ^{14.6} Poise]	⁰ C	405 - 480 ⁰ C
10.	Dielectric Constant	-	6 to 10
11.	Volume Resistivity [Log10 DC Resistivity at 25 ⁰ C]	Ohm cm	8.0 – 16 Ohm cm
12.	Supplier	-	Televac
13.	Melting point	⁰ C	450
14.	MSDS no.	-	XXXX
15.	CAS no.	-	XXXX
16.	Acceptance Criteria		
a.	Visual Acceptance	-	Blue
b.	Insulation Resistance	MΩ	10
17.	Properties to be tested	Test Method	Test Agency
a.	Thermal Conductivity	COC	NABL, IIT-HYD, CMET

PREPARED BY:		REVIEWED & APPROVED BY:
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RENEWABLE ENERGY SYSTEMS LIMITED