

Technical Report Of Physical Properties

Messrs. _____

October 1st 2008

Mitsubishi Plastics, Inc. Nagahama Plant
Electronics & High Performance Materials Production Dep.

Title	DIALAMY FR-02A Mass Production Test Sample Data
Specimen	DIALAMY FR-02A Mass Production Test Samples

Dear let me congratulate you on your company as in good health more and more. Thank you very much for usually receiving special kindness. By the way, it will report on the physical properties of DIALAMY FR-02A's mass production test samples to the following and receive them, please.

Physical properties (typical data)

Group	Test Items	Direction	Test Methods	Description Data		Unit
340 μ m (natural grade)				Existing Products (FR-02)	New Products (FR-02A)	
Mechanical Properties	Tensile Strength	MD	JIS K 7127	144	107	MPa
		TD		148	121	MPa
	Elongation	MD		117	150	%
		TD		97	122	%
Electrical Properties	Dielectric Breakdown Voltage		JIS C 2110	20	19	KV
Thermal Properties	Thermal Shrinkage	MD	JIS K 7133	-1.2	-1.1	%
		TD		-0.2	0.0	%
340 μ m (black)				Existing Products (FR-02)	New Products (FR-02A)	
Mechanical Properties	Tensile Strength	MD	JIS K 7127	116	97	MPa
		TD		181	116	MPa
	Elongation	MD		131	110	%
		TD		73	82	%
Electrical Properties	Dielectric Breakdown Voltage		JIS C 2110	27	27	KV
Thermal Properties	Thermal Shrinkage	MD	JIS K 7133	-1.1	-1.3	%
		TD		0.1	0.4	%
500 μ m (natural)				Existing Products (FR-02)	New Products (FR-02A)	
Mechanical Properties	Tensile Strength	MD	JIS K 7127	118	98	MPa
		TD		132	132	MPa
	Elongation	MD		123	114	%
		TD		86	72	%
Electrical Properties	Dielectric Breakdown Voltage		JIS C 2110	24	27	KV
Thermal Properties	Thermal Shrinkage	MD	JIS K 7133	-1.1	-1.0	%
		TD		-0.2	0.0	%
500 μ m (black)				Existing Products (FR-02)	New Products (FR-02A)	
Mechanical Properties	Tensile Strength	MD	JIS K 7127	114	96	MPa
		TD		152	110	MPa
	Elongation	MD		91	109	%
		TD		93	84	%
Electrical Properties	Dielectric Breakdown Voltage		JIS C 2110	25	32	KV
Thermal Properties	Thermal Shrinkage	MD	JIS K 7133	-0.5	-1.2	%
		TD		0.3	0.3	%

(Note) The values mentioned above are reference ones due to measured data in test samples but not guaranteed ones.

Please confirm the performance of this product enough when you adopt it.