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(Attn.: Classification Section)
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TRADE AND INDUSTRY DEPARTMENT

Classification Questionnaire for Fibrous or Filamentary Materials
SC053 (2023/11)

*(This questionnaire should be completed by the **manufacturer**. Please provide information showing full specification/composition of the product.)*

Part I – Manufacturer and Product Information

Manufacturer: _____

Brand Name : _____

Model No. : _____

Part II – General Information

What is the type of fibrous or filamentary material for the product in Part I? (Please put √ in the appropriate box.)	(a) Organic	☐
	(b) Carbon	☐
	(c) Inorganic	☐
	(d) Others : please specify _____	☐

Part III -- Technical Information (Specification/Composition for the product in Part I)
Please select the appropriate section to answer and put √ in the appropriate boxes.

Section (a)	**(For Organic fibrous or filamentary materials)**	**Yes**	**No**
1C010(a)	(1) Having a specific modulus exceeding 12.7 x 10^6 m. (Please provide the exact figure in:_____ m.)	☐	☐
	(2) Having a specific tensile strength exceeding 23.5 x 10^4 m. (Please provide the exact figure in:_____ m.)	☐	☐
	(Note) The material is polyethylene.	☐	☐

Section (b)	**(For Carbon fibrous or filamentary materials)**	**Yes**	**No**
1C010(b)	(1) Having a specific modulus exceeding 14.65 x 10^6 m. (Please provide the exact figure in:_____ m.)	☐	☐
	(2) Having a specific tensile strength exceeding 26.82 x 10^4 m. (Please provide the exact figure in:_____ m.)	☐	☐
	(Note 1) The product is for the repair of civil aircraft structures or laminates, having all of the following: (a) An area not exceeding 1 m^2; (b) A length not exceeding 2.5 m; and (c) A width exceeding 15 mm.	☐	☐
	(Note 2) Mechanically chopped, milled or cut carbon fibrous or filamentary materials 25.0 mm or less in length.	☐	☐

Section (c)	(For Inorganic fibrous or filamentary materials)	Yes	No
1C010(c)	(1) Having any of the following:		
	(a) Composed of 50% or more by weight silicon dioxide and having a "specific modulus" exceeding 2.54 x 10^6 m; (Please provide the exact figure in:_____m.)	☐	☐
	(b) Not specified in 1C010(c)(1)(a) and having a "specific modulus" exceeding 5.6 x 10^6 m;	☐	☐
	(2) Having a melting, softening, decomposition or sublimation point exceeding 1922 K (1649 ^oC) in an inert environment.	☐	☐
	(Note 1) The materials are discontinuous, multiphase, polycrystalline alumina fibres in chopped fibre or random mat form, containing 3 % by weight or more silica, with a specific modulus of less than 10 x 10^6 m.	☐	☐
	(Note 2) The materials are molybdenum and molybdenum alloy fibres.	☐	☐
	(Note 3) The materials are boron fibres.	☐	☐
	(Note 4)The materials are discontinuous ceramic fibres with a melting, softening, decomposition or sublimation point lower than 2043 K (1770 ^oC) in an inert environment.	☐	☐

Section (d)	(For other fibrous or filamentary materials)	Yes	No
1C010(d)	Being composed of any of the following:		
	(1) Bismaleimides;	☐	☐
	(2) Aromatic polyamide-imides;	☐	☐
	(3) Aromatic polyimides;	☐	☐
	(4) Aromatic polyetherimides;	☐	☐
	(5) Polyarylene ketones;	☐	☐
	(6) Polyarylene sulphides;	☐	☐
	(7) Polybiphenylenethersulphone.	☐	☐
	If yes for any of (1) to (7) above, please also complete '**SC052-Classification Questionnaire for Non-fluorinated Polymeric Substances**'.		

Section (e)	**(For fully or partially resin-impregnated or pitch-impregnated fibrous or filamentary materials (prepregs), metal or carbon-coated fibrous or filamentary materials (preforms) or carbon fibre preforms)**	**Yes**	**No**
1C010(e)	(1) (a) Made from inorganic fibrous or filamentary materials (If yes, please also complete Section (c) above.)	☐	☐
	(b) Made from organic or carbon fibrous or filamentary materials with all of the following characteristics:	☐	☐
	(i)With specific modulus exceeding 10.15 x 10^6 m. (Please provide the exact figure in:_____ m.)	☐	☐
	(ii)With specific tensile strength exceeding 17.7 x 10^4 m. (Please provide the exact figure in:_____ m.)	☐	☐
	(2) (a) (i) Resin or pitch specified in Section (d) above. (If yes for any of (1) to (7) in Section (d) above, please also complete '**SC052-Classification Questionnaire for Non-fluorinated Polymeric Substances**'.)	☐	☐
	(ii) Resin or pitch having fluorinated polyimides containing 10% by weight or more of combined fluorine;	☐	☐
	(b) Dynamic Mechanical Analysis glass transition temperature (DMA Tg) equal to or exceeding 453 K (180℃) and having a phenolic resin; (Please provide the exact temperature in:_____ ℃.)	☐	☐
	(c) Dynamic Mechanical Analysis glass transition temperature (DMA Tg) equal to or exceeding 505 K (232℃) and having a resin or pitch, not specified in paragraphs (2)(a)(i) & (ii) of Section (e), and not being a phenolic resin; (Please provide the exact temperature in:_____ ℃.)	☐	☐
	(Note 1) The product is epoxy resin matrix impregnated carbon fibrous or filamentary materials (prepregs) for the repair of civil aircraft structures or laminates, having all of the following: (a) An area not exceeding 1 m^2; (b) A length not exceeding 2.5 m; and (c) A width exceeding 15 mm.	☐	☐
	(Note 2) Fully or partially resin-impregnated or pitch-impregnated mechanically chopped, milled or cut carbon fibrous or filamentary materials 25.0 mm or less in length when using a resin or pitch other than those specified in paragraphs (2)(a)(i) & (ii) of Section (e).	☐	☐

Section (f)	**(For other fibrous or filamentary materials or prepregs)**	Yes	No
Section (f) (i): 1C210 Note	The fibrous or filamentary materials are in the form of continuous monofilaments, yarns, rovings, tows or tapes. (If **YES**, please complete Section (f) (ii), (iii) or (iv) as appropriate.)	☐	☐
Section (f) (ii): 1C210(a)	Carbon or aramid fibrous or filamentary materials: (1) Having a specific modulus of 12.7×10^6 m or greater; or (Please provide the exact figure in:_____ m.)	☐	☐
	(2) Having a specific tensile strength of 23.5×10^4 m or greater. (Please provide the exact figure in:_____ m.)	☐	☐
	(Note) Whether the materials are aramid fibrous or filamentary materials have 0.25 percent or more by weight of an ester based fibre surface modifier ?	☐	☐
Section (f) (iii): 1C210(b)	Glass fibrous or filamentary materials: (1) Having a specific modulus of 3.18×10^6 m or greater; and (Please provide the exact figure in:_____ m.)	☐	☐
	(2) Having a specific tensile strength of 7.62×10^4 m or greater. (Please provide the exact figure in:_____ m.)	☐	☐
Section (f) (iv): 1C210(c)	Thermoset resin impregnated continuous yarns, rovings, tows or tapes with a width of 15 mm or less (prepregs), made from carbon or glass fibrous or filamentary materials specified in Section (f) (ii) or (iii) above. (If **YES**, please also complete Section (f) (ii) or (iii) as appropriate.)	☐	☐

Part IV – Declaration (by the Manufacturer of the Product in Part I)

I declare to the best of my knowledge and belief the information given above is true and correct.

Name of Signatory : _____
(in block letters)

Name of Company : _____

Position of Signatory in the Company : _____

Signature & Company chop : _____

Date : _____

Important Note : The data collected in this form will be kept in confidence. They may however be disclosed to other government departments, or to third parties in Hong Kong or elsewhere, if such disclosure is necessary to facilitate consideration of the related application, is in the interests of the trade in Hong Kong, is authorised or required by the law; or if explicit consent to such disclosure is given by the applicant/data subject.

For further information concerning the handling of personal data by the Department, please refer to a relevant Note issued by the Department on the subject, copy of which is obtainable from the Strategic Trade Controls Branch on 16/F, Trade and Industry Tower, 3 Concorde Road, Kowloon City, Hong Kong.