

TRADE AND INDUSTRY DEPARTMENT

Classification Questionnaire for Fibrous or Filamentary Materials
SC053 (2021/09)

(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 \surd in the appropriate box.)	(a) Organic (b) Carbon (c) Inorganic (d) Others : please specify _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
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Part III -- Technical Information (Specification/Composition for the product in Part I)

Please select the appropriate section to answer and put \surd in the appropriate boxes.

Section (a)	(For Organic fibrous or filamentary materials)	Yes	No
1C010(a)	(1) Having a specific modulus exceeding 12.7×10^6 m. (Please provide the exact figure in: _____ m.)	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Having a specific tensile strength exceeding 23.5×10^4 m. (Please provide the exact figure in: _____ m.)	<input type="checkbox"/>	<input type="checkbox"/>
	(Note) The material is polyethylene.	<input type="checkbox"/>	<input type="checkbox"/>

Section (b)	(For Carbon fibrous or filamentary materials)	Yes	No
1C010(b)	(1) Having a specific modulus exceeding 14.65×10^6 m. (Please provide the exact figure in: _____ m.)	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Having a specific tensile strength exceeding 26.82×10^4 m. (Please provide the exact figure in: _____ m.)	<input type="checkbox"/>	<input type="checkbox"/>
	(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.	<input type="checkbox"/>	<input type="checkbox"/>
	(Note 2) Mechanically chopped, milled or cut carbon fibrous or filamentary materials 25.0 mm or less in length.	<input type="checkbox"/>	<input type="checkbox"/>

Section (c)	(For Inorganic fibrous or filamentary materials)	Yes	No
1C010(c)	(1) Having a specific modulus exceeding 2.54×10^6 m. (Please provide the exact figure in: _____ m.)	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Having a melting, softening, decomposition or sublimation point exceeding 1922 K (1649 °C) in an inert environment.	<input type="checkbox"/>	<input type="checkbox"/>
	(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 10×10^6 m.	<input type="checkbox"/>	<input type="checkbox"/>
	(Note 2) The materials are molybdenum and molybdenum alloy fibres.	<input type="checkbox"/>	<input type="checkbox"/>
	(Note 3) The materials are boron fibres.	<input type="checkbox"/>	<input type="checkbox"/>
	(Note 4) The materials are discontinuous ceramic fibres with a melting, softening, decomposition or sublimation point lower than 2043 K (1770 °C) in an inert environment.	<input type="checkbox"/>	<input type="checkbox"/>

Section (d)	(For other fibrous or filamentary materials)	Yes	No
1C010(d)	Being composed of any of the following:		
	(1) Bismaleimides;	<input type="checkbox"/>	<input type="checkbox"/>
	(2) Aromatic polyamide-imides;	<input type="checkbox"/>	<input type="checkbox"/>
	(3) Aromatic polyimides;	<input type="checkbox"/>	<input type="checkbox"/>
	(4) Aromatic polyetherimides;	<input type="checkbox"/>	<input type="checkbox"/>
	(5) Polyarylene ketones;	<input type="checkbox"/>	<input type="checkbox"/>
	(6) Polyarylene sulphides;	<input type="checkbox"/>	<input type="checkbox"/>
	(7) Polybiphenylenethersulphone.	<input type="checkbox"/>	<input type="checkbox"/>
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.)	<input type="checkbox"/>	<input type="checkbox"/>
	(b) Made from organic or carbon fibrous or filamentary materials with all of the following characteristics: (i) With specific modulus exceeding 10.15×10^6 m. (Please provide the exact figure in: _____ m.)	<input type="checkbox"/>	<input type="checkbox"/>
	(ii) With specific tensile strength exceeding 17.7×10^4 m. (Please provide the exact figure in: _____ m.)	<input type="checkbox"/>	<input type="checkbox"/>
	(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;	<input type="checkbox"/>	<input type="checkbox"/>
(b) Dynamic Mechanical Analysis glass transition temperature (DMA Tg) equal to or exceeding 453 K (180°C) and having a phenolic resin; (Please provide the exact temperature in: _____ °C.)	<input type="checkbox"/>	<input type="checkbox"/>	
(c) Dynamic Mechanical Analysis glass transition temperature (DMA Tg) equal to or exceeding 505 K (232°C) 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: _____ °C.)	<input type="checkbox"/>	<input type="checkbox"/>	
(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.	<input type="checkbox"/>	<input type="checkbox"/>	
(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).	<input type="checkbox"/>	<input type="checkbox"/>	

