PRODUCT HANDLING INFORMATION SHEET





1. Producer / supplier

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Product description 2.

Commercial product name:

Duratron[®] T4203 PAI (extruded) Duratron[®] T4503 PAI (compression moulded)

These products are 'articles' according to the Regulation (EC) No 1907/2006 (REACH).

Material characterization:

Polyamide-imide + titanium dioxide [PAI]

3.	Product characteristics		
	Form:	semi-finished products (round rods, plates, tubes) / finished parts machined from semi-finished products	
	Colour:	yellow-ochre	T
	Odour:	odourless	Test methods
	Density:	1.41 g/cm ³	ISO 1183-1
	Melting temperature:	- Values for this property are only given here for amorphous materials	ISO 11357-1/-3 s and not for semi-crystalline ones.
	Glass transition temperature:	280 °C	ISO 11357-1/-2
	Thermal decomposition:	no information available	
	Self-ignition temperature:	> 500 °C	ASTM D 1929
	Solubility in water:	insoluble	

4. Handling and storage

Machining:

Storage:

During machining of the semi-finished products, evacuate swarf to prevent slipping or tripping hazard and observe the maximum allowable concentration of dust levels on the workplace which apply in your country. Wear safety goggles during machining.

> The products shall be stored indoors in a normal environment (air at 10 - 30°C / 30 - 70% RH) and kept away from any source of degradation such as sunlight, UV-lamps, chemicals (direct or indirect contact), ionising radiation, flames, etc. Dimensional changes (camber, warpage, shrinkage ...) of the products as well as slight colour shifts of the external surfaces can occur with time. The latter does generally not pose a problem in case of semi-finished products since the surface-layer is mostly removed anyway upon machining them into finished parts properties of materials The which are prone to water absorption, e.g.

polyamide-imides, may change significantly with storage time as a result of water absorbed from the environment (this effect depends very much on shape and size of the products, the relative humidity and temperature of the environment and the time). However, this water absorption phenomenon being a reversible one, the original material properties can if necessary be restored by drying them.

Safety measures:

Standard industrial safety recommendations shall be observed. Temperatures above the melting temperature shall be avoided.

Please also note the disclaimer on page 2 of this document.

Mitsubishi Chemical Advanced Materials

1/2

Duratron® T4203 & T4503 PAI



5. F	Fire-fighting measures			
S	Suitable extinguishing media:	: Water, foam, CO2. Adapted to the nature and extend of fire.		
ŀ	Hazardous decomposition proc	 oducts: The main products formed in case of overheating and combustion are carbon monoxide and carbon dioxide, fluorinated hydrocarbons and hydrofluoric acid. Formation of further hazardous decomposition products depends upon the fire conditions and cannot be excluded. :: Firemen should wear self-contained breathing apparatus and protective clothing to prevent contact with skin and/or eyes. If exposed to combustion fumes in a high concentration, bring the victim into fresh air. If molten material contacts skin, cool rapidly with cold water and obtain medical attention for removal of adhering material and treatment of the burn. 		
S	Special protective equipment:			
6. C	6. Disposal considerations			
F		 Ate Catalogue and Hazardous Waste List', uncontaminated waste from the rodus. The following six-digit codes can be used: 07 02 13 waste plastic from the manufacture, formulation, supply and use of plastics 12 01 05 plastic shavings and turnings 16 01 19 plastic, from end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance 17 02 03 plastic construction and demolition wastes 20 01 39 plastics from municipal wastes (household waste and similar commercial, industrial and institutional wastes) When recycling is not feasible, waste disposal by incineration or landfill can be applied. Disposal methods shall conform to local or other government regulations. The products do not contain cadmium pigments or cadmium stabilisers. They are not biologically degradable, but based on the present state of knowledge no negative effects on the environment may be anticipated. 		
7. N	larking and transport inf	ormation		
0	Classification and labelling:	Hazard warning labelling in accordance with relevant EC-Directives is not required.		
1	nternational transport regulati	ons: Not applicable		
8. C	Other information			
(Consult the Mitsubishi website for the latest information on the Mitsubishi Chemical Advanced Mate (product data sheets, delivery programme, machining instructions, chemical resistance, regulatory i as well as for our statements concerning the European Regulation (EC) No 1907/2006 (REACH).			

Duratron® is a registered trademark of Mitsubishi Chemical Advanced Materials.

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2/2