PE 500

1. Producer / supplier



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	Product description		
	Commercial product name:	PE 500	
	These products are 'articles' according to the Regulation (EC) No 1907/2006 (REACH).		
	Material characterization:	High molecular weight polyethylene [PE-HMW]	
3.	Product characteristics		
	Form:	semi-finished products (round rods, plates) / finished finished products	parts machined from semi-
	Colour:	natural (white) / green / black / other colours (blue, yellow, red)	
	Odour:	odourless	Test methods
	Density:	0.96 g/cm³	ISO 1183-1
	Melting temperature:	135 °C	ISO 11357-1/-3
	Glass transition temperature:	Values for this property are only given here for amorphous materials	ISO 11357-1/-2 s and not for semi-crystalline ones.
	Thermal decomposition:	> 300 °C	
	Self ignition temperature:	> 330 °C	ASTM D 1929
	Solubility in water:	insoluble	
4.	Handling and storage		
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/	Machining: During machining of the semi-finished products, evacuate swarf to slipping or tripping hazard and observe the maximum allowable co dust levels on the workplace which apply in your country. Wear sa during machining.		allowable concentration of
	Storage:	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.	
	Safety measures:	Standard industrial safety recommendations shall be Temperatures above the melting temperature shall b	

1/3

Please also note the disclaimer on page 3 of this document.

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PE 500

PRODUCT HANDLING INFORMATION SHEET



5. Fire-fighting measures

Suitable extinguishing media	Water, foam, dry chemical, CO ₂ . Adapted to the nature and extend of fire.		
Hazardous decomposition p	oducts: The main products formed in case of overheating and combustion are carbon		
	monoxide and carbon dioxide. Formation of further hazardous decomposition products depends upon the fire conditions and can not be excluded.		
Special protective equipmen	: 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.		
6. Disposal considerations			
	 aste Catalogue and Hazardous Waste List', uncontaminated waste from the zardous. 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) 		
Waste disposal:	 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. Marking and transport i	nformation		
Classification and labelling:	Hazard warning labelling in accordance with relevant EC-Directives is not required.		

International transport regulations:

Not applicable

8. **Other information**

Consult the Quadrant website for the latest information on the Quadrant products (product data sheets, delivery programme, machining instructions, chemical resistance, regulatory information ...) as well as for our statements concerning the European Regulation (EC) No 1907/2006 (REACH).

Please also note the disclaimer on page 3 of this document.

(2/3)

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