Quicksilver® HD PE-UHMW



1. Producer / supplier

Mitsubishi Chemical Advanced Materials I.P. Noord – Galgenveldstraat 12 B – 8700 Tielt

Tel.: +32/(0)51/42 35 11 Fax: +32/(0)51/42 33 00

2. Product description

Commercial product name: Quicksilver[®] HD PE-UHMW These products are 'articles' according to the Regulation (EC) No 1907/2006 (REACH).

Material characterization:

Ultra high molecular weight polyethylene [PE-UHMW]

3. Product characteristics

Form:		sheets		
Colour: Odour:		green	Test methods	
		odourless	rest methods	
Densit	y:	0.96 g/cm ³	ISO 1183-1	
Melting	g temperature:	135 °C	ISO 11357-1/-3	
Glass transition temperature:		- Values for this property are only given here for amorphous materi	ISO 11357-1/-2 als and not for semi-crystalline ones.	
Thermal decomposition:		> 300 °C		
Self-ignition temperature:		> 330 °C	ASTM D 1929	
Solubi	lity in water:	insoluble		
4. Hand	Handling and storage			
Machining:		During machining of the 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.		
Storage:		The products shall be stored indoors in a normal environment (air at $10 - 30^{\circ}C / 30 - 70^{\circ}RH$) 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.		
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.

1/2

Quicksilver® HD PE-UHMW



5. Fire-fighting measures			
Suitable extinguishing media:	Suitable extinguishing media: Water, foam, dry chemical, CO ₂ . Adapted to the nature and extend of fire.		
Hazardous decomposition products:			
	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 cannot be excluded.		
Special protective equipment:	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			
products is not classified as haza Waste disposal:	 Ste Catalogue and Hazardous Waste List', uncontaminated waste from the ardous. 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. Marking and transport information			
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 Mitsubishi website for the latest information on the Mitsubishi Chemical Advanced Material 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).			

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

All statements, technical information, recommendations, and advice are for informational purposes only and are not intended and should not be construed as a warranty of any type or term of sale. The reader, however, is cautioned that Mitsubishi Chemical Advanced Materials does not guarantee the accuracy or completeness of this information and it is the customer's responsibility to test and assess the suitability of the products of Mitsubishi Chemical Advanced Materials in any given application or for use in a finished device.