

Wednesday, March 02, 2005

<b>ULTEM® 2200</b>		Huit Crotom. Facilish
GE Plastics - Polyet	ther Imide	Unit System: English
View		
Datasheet	Shown Below	
ASTM Data Sheet	F	
ISO Data Sheet		
CAMPUS® Data Sheet		
Actions		
Product Sourcing	<u>5</u>	
E-mail a Datasheet		
Product Alternatives		
	G	eneral Information
<b>Product Description</b>		
20% Glass fiber filled, strecognized colors.  General	andard flow Polyetherimide (Tg 217C).	ECO Conforming, UL94 V0 and 5VA listing. NSF 51 listing, WRAS certification in
Material Status	Commercial: Act	VA
Availability	North America	· <del>·</del>
Test Standards Availabl		
Filler/Reinforcement		rcement, 20 % Filler by Weight
Agency Ratings	● NSF 51	, , ,
Forms	Pellets	
Processing Method	Injection Molding	
Multi-Point Data	<ul> <li>Elastic Modulus</li> <li>Flexural DMA (A</li> <li>Instrumented Im</li> <li>Instrumented Im</li> <li>Pressure-Volume</li> <li>Shear DMA (AST</li> <li>Specific Heat vs.</li> <li>Tensile Creep (A</li> <li>Tensile Stress vs.</li> <li>Thermal Conduct</li> </ul>	pact (Energy) (ASTM D3763) pact (Load) (ASTM D3763) pact (Load) (ASTM D3763) pact (Load) (PVT - Zoller Method) M D4065) Temperature (ASTM D3417)

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Physical	Nominal Value	Unit	Test Method
Density -Specific Gravity	1.42	sp gr 23/23°C	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	6.00	g/10 min	ASTM D1238
Mold Shrink, Linear-Flow (0.126 in)	0.0030 to 0.0050	in/in	ASTM D955
Water Absorption @ 24 hrs	0.19	%	ASTM D570
Water Absorption @ Equil (73 °F)	1.1	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>2</sup>	1.00E+6	psi	ASTM D638
Tensile Strength @ Break <sup>3</sup>	19000	psi	ASTM D638
Tensile Elongation @ Brk <sup>3</sup>	4.0	%	ASTM D638
Flexural Modulus (3.94 in Span) <sup>4</sup>	1.00E+6	psi	ASTM D790
Flexural Strength @ Break (3.94 in Span) <sup>4</sup>	33000	psi	ASTM D790

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Impact	Nominal Value Unit	Test Method
Notched Izod Impact (73 °F)	1.20 ft-lb/in	ASTM D256
Unnotched Izod Impact (73 °F)	9.00 ft-lb/in	ASTM D256
Reverse Notch Izod Impact (0.126 in)	8.7 ft-lb/in	ASTM D256
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (M-Scale)	114	ASTM D785
Thermal	Nominal Value Unit	Test Method
DTUL @66psi - Unannealed (0.252 in)	410 °F	ASTM D648
DTUL @264psi - Unannealed (0.252 in)	410 °F	ASTM D648
Vicat Softening Point (Rate B, Loading 2 (50 N))	428 °F	ASTM D1525
CLTE, Flow (TMA) (-4 to 302°F (-20 to 150°C))	0.000014 in/in/°F	ASTM E831
Electrical	Nominal Value Unit	Test Method
Volume Resistivity	7.0E+16 ohm-cm	ASTM D257
Dielectric Strength (0.0630 in, in Oil)	670 V/mil	ASTM D149
Dielectric Constant (1000 Hz)	3.500	ASTM D150
Dissipation Factor		ASTM D150
(1000 Hz)	0.0015	
(2E+9 Hz)	0.0049	
Arc Resistance (PLC) (Tungsten Electrode)	PLC 6	ASTM D495
Flammability	Nominal Value Unit	Test Method
Flame Rating - UL		UL 94
(0.0160 in)	V-0	
(0.0750 in)	5VA	
Limiting Oxygen Index	50 %	ASTM D2863
UL 746	Nominal Value Unit	Test Method
Rel Temp Indx Mech w/olmp	338 °F	UL 746
Rel Temp Indx Mech w/Imp	338 °F	UL 746
Rel Temp Indx Elect	338 °F	UL 746
Comparative Tracking Index (CTI) (PLC)	PLC 4	UL 746
High Voltage Arc Tracking Rate (HVTR) (PLC)	PLC 2	UL 746
Hot-wire Ignition (HWI) (PLC)	PLC 1	UL 746
High Amp Arc Ignition (HAI) (PLC)	PLC 4	UL 746
Additional Properties		

The value listed as Unnotched Izod Impact, ASTM D256, was tested in accordance with ASTM D4812. CSA File No. (See File for Complete Listing): LS88480 NBS Smoke Density, ASTM E662, Flaming, Ds 4 min: 1.3

Processing Information		
njection	Nominal Value Uni	
Drying Temperature	300 °F	
Drying Time	4.0 to 6.0 hr	
Drying Time, Maximum	24 hr	
Suggested Max Moisture	0.020 %	
Suggested Shot Size	40 to 60 %	
Rear Temperature	630 to 750 °F	
Middle Temperature	640 to 750 °F	
Front Temperature	650 to 750 °F	
Nozzle Temperature	650 to 750 °F	
Processing (Melt) Temp	660 to 750 °F	
Mold Temperature	275 to 325 °F	
Back Pressure	50.0 to 100.0 psi	
Screw Speed	40 to 70 rpm	
Vent Depth	0.0010 to 0.0030 in	
N	otes	
Typical properties: these are not to be construed as specifications.		

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Ø.1 in/min



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The information presented on this data sheet was ac

The information presented on this data sheet was acquired by IDES from various sources, including the producer of the material and recognized testing agencies. In some cases, material updates have been integrated directly into the IDES Plastics Database by the material producer utilizing the <a href="Data Maintenance Tool">Data Maintenance Tool</a>. IDES makes substantial efforts to assure the accuracy of this data. However, IDES assumes no responsibility for the data values and urges that upon final material selection, data points are validated with the manufacturer.

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