## **TAIRIREX HP9450**

## High Impact Polystyrene Formosa Chemicals & Fibre Corporation



Material Status	<ul> <li>Commercial: Active</li> </ul>		
Availability	<ul> <li>Asia Pacific</li> </ul>	<ul> <li>Europe</li> </ul>	<ul> <li>North America</li> </ul>
-eatures	<ul> <li>General Purpose</li> </ul>	<ul> <li>High Flow</li> </ul>	
Uses	<ul> <li>Disposable Tableware</li> </ul>	<ul> <li>Media Packaging</li> </ul>	<ul> <li>Sheet</li> </ul>
RoHS Compliance	<ul> <li>RoHS Compliant</li> </ul>		
orms	<ul> <li>Pellets</li> </ul>		
Processing Method	<ul> <li>Injection Molding</li> </ul>		

Forms	Pellets		
Processing Method	<ul> <li>Injection Molding</li> </ul>		
hysical		Nominal Value Unit	Test Method
Specific Gravity		1.04 g/cm³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (200	l°C/5.0 kg)	2.3 g/10 min	ASTM D1238 ISO 1133
Molding Shrinkage - Flow (23°C)		0.40 to 0.60 %	Internal Method
echanical		Nominal Value Unit	Test Method
Tensile Modulus (23°C)		1470 MPa	ASTM D638 ISO 527-2
Tensile Strength			
Yield, 23°C		23.5 MPa	ASTM D638
Yield, 23°C		24.0 MPa	ISO 527-2
Tensile Elongation (Break, 23°C)		43 %	ASTM D638 ISO 527-2
Flexural Modulus (23°C)		2160 MPa	ASTM D790 ISO 178
Flexural Strength			
23°C		43.1 MPa	ASTM D790
23°C		43.0 MPa	ISO 178
ıpact		Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 6.35	mm)	137 J/m	ISO 180 ASTM D256
hermal		Nominal Value Unit	Test Method
Deflection Temperature Under Lo	pad		
1.8 MPa, Unannealed, 3.18 mr	n	88.0 °C	ASTM D648
1.8 MPa, Unannealed, 3.18 mr	n Span	88.0 °C	ISO 75-2/A
Vicat Softening Temperature		95.0 °C	ISO 306/A ASTM D1525 <sup>2</sup>
ammability		Nominal Value Unit	Test Method
Flame Rating - UL (1.59 mm)	-	НВ	UL 94
UL File Number		E162823	
lditional Information		Nominal Value Unit	
Residual Monomer		< 700 ppm	
jection		Nominal Value Unit	
Drying Temperature		75.0 °C	
Drying Time		1.0 to 2.0 hr	
Hopper Temperature		40.0 °C	
Rear Temperature		200 °C	
Middle Temperature		210 °C	
Front Temperature		220 °C	
Nozzle Temperature		215 °C	

Processing (Melt) Temp

Mold Temperature

Injection Rate

190 to 230 °C

20.0 to 70.0 °C

Moderate

Thursday, February 04, 2010

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<sup>&</sup>lt;sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>&</sup>lt;sup>2</sup> Loading 1 (10 N)