

XAREC™ SW130

Syndiotactic Polystyrene

Idemitsu Kosan Co., Ltd.

Message:

XAREC™ SW130 is a Syndiotactic Polystyrene (SPS) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

General Information			
UL File Number	E48268		
Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 80°C	0.50 to 1.5	%	
Flow : 80°C	0.40 to 1.3	%	
Water Absorption ¹ (Equilibrium, 23°C, 50% RH)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3800	MPa	ISO 527-2
Tensile Stress (Break)	38.0	MPa	ISO 527-2
Tensile Strain (Break)	3.3	%	ISO 527-2
Flexural Modulus	3400	MPa	ISO 178
Flexural Stress	72.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	30	kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	3.0	kJ/m ²	ISO 180
Unnotched Izod Impact Strength (23°C)	20	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ²			
0.45 MPa, Unannealed	163	°C	ISO 75-2/B
1.8 MPa, Unannealed	98.0	°C	ISO 75-2/A
CLTE			TMA
Flow : -30 to 30°C	5.5E-5	cm/cm/°C	
Transverse : -30 to 30°C	7.6E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0 to 5.0	hr	
Processing (Melt) Temp	280 to 310	°C	
Mold Temperature	50.0 to 80.0	°C	
NOTE			
1.	24h		

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