

Starex NH-1926

High Impact Polystyrene

SAMSUNG SDI CO., LTD.

Message:

Non-halogen flame-retardant HIPS with the characteristic of high-impact that can be applied to the exterior material of TV and VCR and interior/exterior material of OA devices

General Information			
UL YellowCard	E115797-268159		
Features	Flame Retardant		
	Halogen Free		
	High Impact Resistance		
Uses	Electrical Housing		
	Electrical/Electronic Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.06	g/cm ³	ASTM D792
--	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
200°C/5.0 kg	11	g/10 min	ASTM D1238
200°C/5.0 kg	10	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	26.0	MPa	ASTM D638
Yield	28.0	MPa	ISO 527-2/50
Flexural Modulus			
-- ²	2000	MPa	ASTM D790
-- ³	2120	MPa	ISO 178
Flexural Strength			
-- ⁴	36.0	MPa	ASTM D790
-- ⁵	44.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18 mm	120	J/m	ASTM D256
23°C ⁶	15	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	73.0	°C	ASTM D648
Vicat Softening Temperature	84.0	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating (3.00 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0	°C	
Desiccant Dryer	80.0	°C	
Drying Time			
--	2.0 to 4.0	hr	
Desiccant Dryer	2.0 to 3.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	190 to 200	°C	
Middle Temperature	200 to 210	°C	
Front Temperature	210 to 220	°C	
Nozzle Temperature	220	°C	
Mold Temperature	40.0 to 80.0	°C	
Injection Pressure	49.0 to 245	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	50 to 150	rpm	
NOTE			
1.	50 mm/min		
2.	2.8 mm/min		
3.	2.0 mm/min		
4.	2.8 mm/min		
5.	2.0 mm/min		
6.	Thickness: 4 mm		

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