

Starex NH-0300

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Flame-retardant non-halogen ABS with superior heat resistance that can be applied to the interior/exterior material of CD/DVD-Combo and DVD-Rec

General Information			
UL YellowCard	E115797-528300		
Features	Flame Retardant		
	Halogen Free		
	High Heat Resistance		
Uses	Electrical Housing		
	Electrical/Electronic Applications		

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.06	g/cm ³	ASTM D792
--	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.5	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	111		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	44.0	MPa	ASTM D638
Yield	55.0	MPa	ISO 527-2/50
Flexural Modulus			
-- ²	2400	MPa	ASTM D790
-- ³	2500	MPa	ISO 178
Flexural Strength			
-- ⁴	66.0	MPa	ASTM D790
-- ⁵	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18 mm	190	J/m	ASTM D256
23°C ⁶	21	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	97.0	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating (0.750 to 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	160 to 180	°C
Middle Temperature	190 to 200	°C
Front Temperature	210 to 220	°C
Nozzle Temperature	230	°C
Mold Temperature	40.0 to 80.0	°C
Injection Pressure	14.7 to 49.0	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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