

Starex BC-0140 H

Acrylonitrile Butadiene Styrene

SAMSUNG SDI CO., LTD.

Message:

Highly stiff ABS material for automobile bobbin

General Information			
UL YellowCard	E115797-219523		
Features	High Stiffness		
Uses	Automotive Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
200°C/10.0 kg	11	g/10 min	ASTM D1238
220°C/10.0 kg	11	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	47.0	MPa	ASTM D638
Yield	40.0	MPa	ISO 527-2/50
Flexural Modulus			
-- ²	2000	MPa	ASTM D790
-- ³	2200	MPa	ISO 178
Flexural Strength			
-- ⁴	61.0	MPa	ASTM D790
-- ⁵	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	24	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 6.35 mm	270	J/m	ASTM D256
23°C ⁷	21	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	110	°C	ISO 306/B50
Injection	Nominal Value	Unit	Test Method
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	49.0 to 147	MPa
Back Pressure	0.490 to 1.96	MPa
Screw Speed	50 to 150	rpm

NOTE

- | | |
|----|-----------------|
| 1. | 5.0 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 |
| 7. | Thickness: 4 mm |

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

