

VALOX™ SHF4330 resin

Acrylonitrile Butadiene Styrene + PBT

SABIC Innovative Plastics Europe

Message:

15% GF reinforced PBT/ASA, High Flow version

General Information			
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Features	High Flow		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792, ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	40.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.20 to 0.60	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ISO 2039-2
Ball Indentation Hardness (H 358/30)	160	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ²	5300	MPa	ASTM D638
--	5400	MPa	ISO 527-2/1
Tensile Strength			
Yield ³	85.0	MPa	ASTM D638
Yield	85.0	MPa	ISO 527-2/5
Break ⁴	85.0	MPa	ASTM D638
Break	85.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁵	3.0	%	ASTM D638
Yield	3.0	%	ISO 527-2/5
Break ⁶	3.0	%	ASTM D638
Break	3.0	%	ISO 527-2/5
Flexural Modulus ⁷	4800	MPa	ISO 178
Flexural Stress	120	MPa	ISO 178
Flexural Strain at Break ⁸	3.0	%	ISO 178
Filler Content	15	%	ASTM D229
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/2C
-30°C	4.0	kJ/m ²	
23°C	4.0	kJ/m ²	

Charpy Unnotched Impact Strength			ISO 179/2U
-30°C	20	kJ/m ²	
23°C	30	kJ/m ²	
Notched Izod Impact Strength ⁹			ISO 180/1A
-30°C	4.0	kJ/m ²	
23°C	4.0	kJ/m ²	
Unnotched Izod Impact Strength ¹⁰			ISO 180/1U
-30°C	20	kJ/m ²	
23°C	28	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹¹			
0.45 MPa, Unannealed, 64.0 mm Span	204	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	152	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	215	°C	ISO 306/A50
--	157	°C	ISO 306/B50
--	159	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (280°C, 1500 sec ⁻¹)	55.0	Pa·s	ISO 11443
NOTE			
1.	Tensile Bar		
2.	5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	Type I, 5.0 mm/min		
7.	2.0 mm/min		
8.	2 mm/min		
9.	80*10*4		
10.	80*10*4		
11.	80*10*4 mm		

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