

VALOX™ RESIN SHF4330

REGION EUROPE

DESCRIPTION

15% GF reinforced PBT/ASA, High Flow version

TYPICAL PROPERTY VALUES

Revision 20170913

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	85	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	85	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	3	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3	%	ASTM D 638
Tensile Modulus, 5 mm/min	5300	MPa	ASTM D 638
Tensile Stress, yield, 5 mm/min	85	MPa	ISO 527
Tensile Stress, break, 5 mm/min	85	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3	%	ISO 527
Tensile Strain, break, 5 mm/min	3	%	ISO 527
Tensile Modulus, 1 mm/min	5400	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	120	MPa	ISO 178
Flexural Stress, break, 2 mm/min	120	MPa	ISO 178
Flexural Strain, break, 2 mm/min	3	%	ISO 178
Flexural Modulus, 2 mm/min	4800	MPa	ISO 178
Hardness, H358/30	160	MPa	ISO 2039-1
Hardness, Rockwell R	120	-	ISO 2039-2
IMPACT			
Charpy Impact, unnotched, 23°C	30	kJ/m ²	ISO 179/2C
Charpy Impact, unnotched, -30°C	20	kJ/m ²	ISO 179/2C
Izod Impact, unnotched 80*10*4 +23°C	28	kJ/m ²	ISO 180/1U
Izod Impact, unnotched 80*10*4 -30°C	20	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	4	kJ/m ²	ISO 180/1A
Charpy Impact, notched, 23°C	4	kJ/m ²	ISO 179/2C
Charpy Impact, notched, -30°C	4	kJ/m ²	ISO 179/2C
THERMAL			
Ball Pressure Test, 125°C +/- 2°C	PASSES	-	IEC 60695-10-2

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Vicat Softening Temp, Rate A/50	215	°C	ISO 306
Vicat Softening Temp, Rate B/50	157	°C	ISO 306
Vicat Softening Temp, Rate B/120	159	°C	ISO 306
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	204	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	152	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.39	-	ASTM D 792
Filler Content	15	%	ASTM D 229
Mold Shrinkage on Tensile Bar, flow (2) (5)	0.2 – 0.6	%	SABIC method
Density	1.39	g/cm ³	ISO 1183
Melt Volume Rate, MVR at 250°C/5.0 kg	40	cm ³ /10 min	ISO 1133
Melt Viscosity, 280°C, 1500 sec-1	55	Pa-s	ISO 11443

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