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sabic

VALOX™ RESIN 315

REGION ASIA

DESCRIPTION

Unreinforced, For extrusion/compounding only (not for injection molding). High viscosity. Melt viscosity between 7500 and 9500 poise.

TYPICAL PROPERTY VALUES

Revision 20260331

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	51	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	200	%	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	82	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2340	MPa	ASTM D790
IMPACT			
Izod Impact, notched, 23°C	53	J/m	ASTM D256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	52	°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm, unannealed	54	°C	ASTM D648
CTE, -40°C to 60°C, flow	2.E-04	1/°C	ASTM E831
Relative Temp Index, Elec	120	°C	UL 746B
Relative Temp Index, Mech w/impact	120	°C	UL 746B
Relative Temp Index, Mech w/o impact	140	°C	UL 746B
PHYSICAL			
Specific Gravity	1.31	-	ASTM D792
Water Absorption, (23°C/24hrs)	0.08	%	ASTM D570
Mold Shrinkage, flow, 3.2 mm	1.7 – 2.3	%	SABIC method
ELECTRICAL			
Volume Resistivity	4.E+16	Ω.cm	ASTM D257
Relative Permittivity, 1 MHz	0.02	-	ASTM D150
Dissipation Factor, 1 MHz	3.1	-	ASTM D150
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	3 – 4	Hrs	
Drying Time (Cumulative)	12	Hrs	
Melt Temperature	235 – 265	°C	
Mold Temperature	45 – 60	°C	

DISCLAIMER

CHEMISTRY THAT MATTERS™