

Valox* Resin CS860

Americas: COMMERCIAL

30% glass reinforced PBT+PET blend. Color stable, FR. Housewares, appliances; iron skirt, oven trim/panels.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	108	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	110	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3.1	%	ASTM D 638
Tensile Modulus, 5 mm/min	6200	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	155	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	8270	MPa	ASTM D 790
ІМРАСТ	Value	Unit	Standard
Izod Impact, unnotched, 23°C	534	J/m	ASTM D 4812
Izod Impact, notched, 23°C	80	J/m	ASTM D 256
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 6.4 mm, unannealed	212	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	187	°C	ASTM D 648
Relative Temp Index, Elec	130	°C	UL 746B
Relative Temp Index, Mech w/impact	130	°C	UL 746B
Relative Temp Index, Mech w/o impact	140	°C	UL 746B
PHYSICAL	Value	Unit	Standard
Specific Gravity	1.73	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.2 - 0.3	%	SABIC Method
Mold Shrinkage, xflow, 3.2 mm	0.5 - 0.6	%	SABIC Method
Melt Flow Rate, 266°C/5.0 kgf	45	g/10 min	ASTM D 1238
ELECTRICAL	Value	Unit	Standard
Arc Resistance, Tungsten {PLC}	5	PLC Code	ASTM D 495
Hot Wire Ignition (PLC)	0	PLC Code	UL 746A
High Voltage Arc Track Rate {PLC}	4	PLC Code	UL 746A
High Ampere Arc Ign, surface {PLC}	0	PLC Code	UL 746A
Comparative Tracking Index (UL) {PLC}	3	PLC Code	UL 746A
FLAME CHARACTERISTICS	Value	Unit	Standard
UL Recognized, 94V-0 Flame Class Rating (3)	0.76	mm	UL 94
UL Recognized, 94-5VA Rating (3)	2.99	mm	UL 94

Processing

Parameter		
Injection Molding	Value	Unit
Drying Temperature	60 - 75	°C
Drying Time	4 - 5	hrs
Drying Time (Cumulative)	8	hrs
Maximum Moisture Content	0.05	%
Minimum Moisture Content	0.02	%

255 - 270 255 - 265 250 - 260	℃ ℃ ℃
250 - 260	-
	°C
245 - 255	°C
65 - 95	°C
0.3 - 0.7	MPa
50 - 80	rpm
40 - 80	%
0.025 - 0.038	mm
	65 - 95 0.3 - 0.7 50 - 80 40 - 80

Source GMD, last updated:11/03/1997

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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