

Valox* Resin V8090

Europe-Africa-Middle East: COMMERCIAL

50% Glass Fiber Reinforced PBT-PET resin

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yield, 5 mm/min	175	MPa	ISO 527
Tensile Stress, break, 5 mm/min	175	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.5	%	ISO 527
Tensile Strain, break, 5 mm/min	1.5	%	ISO 527
Tensile Modulus, 1 mm/min	17500	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	255	MPa	ISO 178
Flexural Modulus, 2 mm/min	16000	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched 80*10*4 +23°C	40	kJ/m ²	ISO 180/1U
Izod Impact, unnotched 80*10*4 -30°C	40	kJ/m ²	ISO 180/1U
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	11	kJ/m ²	ISO 179/1eA
THERMAL	Value	Unit	Standard
CTE, 23°C to 80°C, flow	1.5E-05	1/°C	ISO 11359-2
CTE, 23°C to 80°C, xflow	7.2E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	212	°C	ISO 306
Vicat Softening Temp, Rate B/120	210	°C	ISO 306
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	206	°C	ISO 75/Ae
PHYSICAL	Value	Unit	Standard
Density	1.76	g/cm ³	ISO 1183
Water Absorption, (23°C/sat)	0.16	%	ISO 62
Moisture Absorption (23°C / 50% RH)	0.05	%	ISO 62
Melt Volume Rate, MVR at 265°C/2.16 kg	7	cm ³ /10 min	ISO 1133

Source GMD, last updated:05/21/2008

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	105	°C
Drying Time	3 - 4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	270 - 300	°C
Mold Temperature	65 - 95	°C

Source GMD, last updated:05/21/2008

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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