



Valox* Resin 7062HP

Europe-Africa-Middle East: COMMERCIAL

ENDURAN 7062HP is a 38% mineral filled & FDA compliance injection moulding resin.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	540	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	560	kgf/cm ²	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	42000	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1120	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	45600	kgf/cm ²	ASTM D 790
Taber Abrasion, CS-17, 1 kg	74	mg/1000cy	GE Method
Tensile Stress, yield, 5 mm/min	60	MPa	ISO 527
Tensile Stress, break, 5 mm/min	60	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	4200	MPa	ISO 527
Flexural Stress, break, 2 mm/min	100	MPa	ISO 178
Flexural Modulus, 2 mm/min	3900	MPa	ISO 178
Hardness, H358/30	140	MPa	ISO 2039-1
IMPACT			
Izod Impact, unnotched, 23°C	43	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	2	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -30°C	2	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	50	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	30	kJ/m ²	ISO 180/1U



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IMPACT			
Izod Impact, unnotched 80*10*4 -30°C	30	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	3	kJ/m ²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	2	kJ/m ²	ISO 179/1eA
Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm	2	kJ/m ²	ISO 179/1eA
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	37	kJ/m ²	ISO 179/1eU
Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm	33	kJ/m ²	ISO 179/1eU
THERMAL			
Vicat Softening Temp, Rate B/50	175	°C	ASTM D 1525
HDT, 1.82 MPa, 3.2mm, unannealed	69	°C	ASTM D 648
CTE, -40°C to 40°C, flow	9.E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	9.E-05	1/°C	ASTM E 831
Thermal Conductivity	0.32	W/m-°C	ISO 8302
CTE, 23°C to 80°C, flow	9.E-05	1/°C	ISO 11359-2
CTE, 23°C to 80°C, xflow	9.E-05	1/°C	ISO 11359-2
CTE, 23°C to 150°C, flow	1.1E-04	1/°C	ISO 11359-2
CTE, 23°C to 150°C, xflow	1.1E-04	1/°C	ISO 11359-2
Ball Pressure Test, 125°C +/- 2°C	PASSES	-	IEC 60695-10-2
Vicat Softening Temp, Rate A/50	215	°C	ISO 306
Vicat Softening Temp, Rate B/50	175	°C	ISO 306
Vicat Softening Temp, Rate B/120	175	°C	ISO 306
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	65	°C	ISO 75/Ae
PHYSICAL			
Specific Gravity	1.81	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	1.2 - 1.9	%	GE Method



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PHYSICAL			
Melt Flow Rate, 266°C/1.2 kgf	33	g/10 min	ASTM D 1238
Density	1.81	g/cm ³	ISO 1183
Water Absorption, (23°C/sat)	0.07	%	ISO 62
Moisture Absorption (23°C / 50% RH)	0.07	%	ISO 62
Melt Volume Rate, MVR at 265°C/1.2 kg	21	cm ³ /10 min	ISO 1133
Melt Volume Rate, MVR at 265°C/2.16 kg	41	cm ³ /10 min	ISO 1133



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PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
Injection Molding		
Drying Temperature	110 - 120	°C
Drying Time	2 - 4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	255 - 280	°C
Nozzle Temperature	245 - 270	°C
Front - Zone 3 Temperature	250 - 270	°C
Middle - Zone 2 Temperature	240 - 260	°C
Rear - Zone 1 Temperature	230 - 250	°C
Hopper Temperature	40 - 60	°C
Mold Temperature	60 - 100	°C