

VALOX™ 7062HP resin

Polybutylene Terephthalate
SABIC Innovative Plastics Asia Pacific

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

General Information			
Filler / Reinforcement	Mineral,38% Filler by Weight		
Agency Ratings	FDA Unspecified Rating		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.81	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (266°C/1.2 kg)	33	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR)			ISO 1133
265°C/1.2 kg	21.0	cm ³ /10min	
265°C/2.16 kg	41.0	cm ³ /10min	
Molding Shrinkage - Flow (3.20 mm)	1.2 to 1.9	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	0.070	%	
Equilibrium, 23°C, 50% RH	0.070	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	140	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4130	MPa	ASTM D638
--	4200	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	53.0	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/5
Break ³	55.0	MPa	ASTM D638
Break	60.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	3.0	%	ASTM D638
Yield	3.0	%	ISO 527-2/5
Break ⁵	3.0	%	ASTM D638
Break	3.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	4480	MPa	ASTM D790
-- ⁷	3900	MPa	ISO 178
Flexural Stress			

--	100	MPa	ISO 178
Break, 50.0 mm Span ⁸	110	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	74.0	mg	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹			ISO 179/1eA
-30°C	2.0	kJ/m ²	
23°C	2.0	kJ/m ²	
Charpy Unnotched Impact Strength ¹⁰			ISO 179/1eU
-30°C	33	kJ/m ²	
23°C	37	kJ/m ²	
Notched Izod Impact			
-30°C	26	J/m	ASTM D256
23°C	22	J/m	ASTM D256
-30°C ¹¹	3.0	kJ/m ²	ISO 180/1A
23°C ¹²	3.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	420	J/m	ASTM D4812
-30°C ¹³	30	kJ/m ²	ISO 180/1U
23°C ¹⁴	30	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	5.00	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	69.2	°C	ASTM D648
1.8 MPa, Unannealed, 100 mm Span ¹⁵	65.0	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	175	°C	ASTM D1525, ISO 306/B50, ISO 306/B120 ¹⁶
--	215	°C	ISO 306/A50
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
CLTE			
Flow : -40 to 40°C	9.0E-5	cm/cm/°C	ASTM E831
Flow : 23 to 80°C	9.0E-5	cm/cm/°C	ISO 11359-2
Flow : 23 to 150°C	1.1E-4	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	9.0E-5	cm/cm/°C	ASTM E831
Transverse : 23 to 80°C	9.0E-5	cm/cm/°C	ISO 11359-2
Transverse : 23 to 150°C	1.1E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.32	W/m/K	ISO 8302
Injection	Nominal Value	Unit	
Drying Temperature	110 to 120	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	

Hopper Temperature	40.0 to 60.0	°C
Rear Temperature	230 to 250	°C
Middle Temperature	240 to 260	°C
Front Temperature	250 to 270	°C
Nozzle Temperature	245 to 270	°C
Processing (Melt) Temp	255 to 280	°C
Mold Temperature	60.0 to 100	°C

NOTE

1.	5.0 mm/min
2.	Type I, 5.0 mm/min
3.	Type I, 5.0 mm/min
4.	Type I, 5.0 mm/min
5.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4 sp=62mm
10.	80*10*4 sp=62mm
11.	80*10*4
12.	80*10*4
13.	80*10*4
14.	80*10*4
15.	120*10*4 mm
16.	Rate B (120°C/h), Loading 2 (50 N)

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