

VALOX™ EH7020 resin

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

VALOX™EH7020 resin is a polybutene terephthalate (PBT) material. This product is available in the Asia-Pacific region and is processed by injection molding.

General Information			
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792
Molding Shrinkage			Internal method
Flow ¹	1.4 - 1.6	%	Internal method
Flow ²	1.5 - 1.6	%	Internal method
Transverse flow ³	1.3 - 1.4	%	Internal method
Transverse flow ⁴	1.4 - 1.5	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ⁵ (Break)	57.9	MPa	ASTM D638
Flexural Modulus ⁶ (50.0 mm Span)	4140	MPa	ASTM D790
Flexural Strength ⁷ (Break, 50.0 mm Span)	103	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	32	J/m	ASTM D256
Unnotched Izod Impact (23°C)	390	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	188	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	105	°C	ASTM D648
CLTE - Flow (-40 to 40°C)	5.6E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (3.20 mm, in Oil)	17	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
50 Hz	3.10		ASTM D150
60 Hz	3.10		ASTM D150
1 MHz	2.90		ASTM D150
Dissipation Factor			ASTM D150
50 Hz	3.9E-3		ASTM D150
60 Hz	3.9E-3		ASTM D150
1 MHz	0.014		ASTM D150
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	

Drying Time	3.0 - 4.0	hr
Drying Time, Maximum	12	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	40 - 80	%
Rear Temperature	238 - 254	°C
Middle Temperature	243 - 260	°C
Front Temperature	249 - 266	°C
Nozzle Temperature	243 - 260	°C
Processing (Melt) Temp	249 - 266	°C
Mold Temperature	65.6 - 87.8	°C
Back Pressure	0.345 - 0.689	MPa
Screw Speed	50 - 80	rpm
Vent Depth	0.025 - 0.038	mm

NOTE

1.	1.5 to 3.2 mm
2.	3.2 to 4.6 mm
3.	1.5 to 3.2 mm
4.	3.2-4.6 mm
5.	Type 1, 5.0 mm/min
6.	1.3 mm/min
7.	1.3 mm/min

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT