

VALOX™ V8030CS resin

Polybutylene Terephthalate + PET

SABIC Innovative Plastics

Message:

Dual processable for use in cooking appliance components such as gas-assist molded handles and injection molded end caps

General Information			
Uses	Appliance Components		
	Caps		
	Handles		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183, ASTM D792
Melt Volume-Flow Rate (MVR)			ISO 1133
265°C/2.16 kg	29.0	cm ³ /10min	
265°C/5.0 kg	75.0	cm ³ /10min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6180	MPa	ASTM D638
--	5890	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	99.0	MPa	ASTM D638
Yield	95.0	MPa	ISO 527-2/5
Break ³	98.0	MPa	ASTM D638
Break	103	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.7	%	ASTM D638
Yield	2.1	%	ISO 527-2/5
Break ⁵	8.6	%	ASTM D638
Break ⁶	2.8	%	ASTM D638
Break	2.0	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁷	5580	MPa	ASTM D790
--	5480	MPa	ISO 178
Flexural Stress			
--	148	MPa	ISO 178
Yield, 50.0 mm Span ⁸	148	MPa	ASTM D790
Break, 50.0 mm Span ⁹	148	MPa	ASTM D790
Flexural Strain at Break ¹⁰	3.4	%	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength ¹¹ (23°C)	24	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C	58	J/m	ASTM D256
-30°C ¹²	4.0	kJ/m ²	ISO 180/1A
23°C ¹³	4.1	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	220	°C	
1.8 MPa, Unannealed, 3.20 mm	173	°C	
Vicat Softening Temperature			
--	224	°C	ASTM D1525 ¹⁴
--	222	°C	ISO 306/A50, ISO 306/A120
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.	5.0 mm/min		
6.	Type I, 5.0 mm/min		
7.	1.3 mm/min		
8.	1.3 mm/min		
9.	1.3 mm/min		
10.	2 mm/min		
11.	80*10*4 mm, Cut		
12.	80*10*4		
13.	80*10*4		
14.	Rate A (50°C/h), Loading 2 (50 N)		

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