

KIBITON® Q-Resin PB-5903

Styrene Butadiene Block Copolymer

CHI MEI CORPORATION

Message:

KIBITON® Q-Resin PB-5903 is a Styrene Butadiene Block Copolymer (SBC) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

RoHS Compliant

Clarity

General Information			
UL YellowCard	E56070-590453		
Features	High Clarity		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.02	g/cm ³	ASTM D792
23°C	1.10	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	10	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	10.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield, 4.00 mm	27.0	MPa	ISO 527-2/50
Break, 4.00 mm	19.0	MPa	ISO 527-2/50
3.18 mm ¹	24.5	MPa	ASTM D638
Tensile Strain			ISO 527-2/50
Yield, 2.00 mm	2.0	%	
Break, 4.00 mm	200	%	
Flexural Modulus			
6.35 mm ²	1370	MPa	ASTM D790
4.00 mm ³	1400	MPa	ISO 178
Flexural Strength			
6.35 mm ⁴	31.4	MPa	ASTM D790
4.00 mm ⁵	36.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.8	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	72	kJ/m ²	ISO 179
Notched Izod Impact			

23°C, 6.35 mm	29	J/m	ASTM D256
23°C	2.3	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.35 mm ⁶	71.0	°C	ASTM D648
1.8 MPa, Unannealed	71.0 to 83.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	87.0	°C	ASTM D1525 ⁷
--	93.0	°C	ISO 306/A50
--	89.0	°C	ISO 306/A120
--	70.0	°C	ISO 306/B50
--	68.0	°C	ISO 306/B120
Optical	Nominal Value	Unit	Test Method
Transmittance (3180 μm)	90.5	%	ASTM D1003
Haze (3180 μm)	1.5	%	ASTM D1003
NOTE			
1.	6.0 mm/min		
2.	2.8 mm/min		
3.	2.0 mm/min		
4.	2.8 mm/min		
5.	2.0 mm/min		
6.	120°C/hr		
7.	Rate A (50°C/h)		

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

