



KIBITON® Q-Resin PB-5903

CHI MEI CORPORATION - Styrene Butadiene Block Copolymer

Tuesday, November 5, 2019

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• Latin America
RoHS Compliance	• RoHS Compliant		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.02		ASTM D792
Density (73°F)	1.01	g/cm ³	ISO 1183
Melt Mass-Flow Rate (200°C/5.0 kg)	10	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	10	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Yield)	4120	psi	ASTM D638
Tensile Stress (Yield, 0.157 in)	3920	psi	ISO 527-2/50
Tensile Stress (Break, 0.157 in)	2760	psi	ISO 527-2/50
Tensile Strain (Yield, 0.157 in)	2.0	%	ISO 527-2/50
Tensile Strain (Break, 0.157 in)	200	%	ISO 527-2/50
Flexural Modulus ⁴	199000	psi	ASTM D790
Flexural Modulus ⁵ (0.157 in)	2.03E+8	psi	ISO 178
Flexural Strength ⁴	4830	psi	ASTM D790
Flexural Stress ⁵ (0.157 in)	5220	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.3	ft·lb/in ²	ISO 179
Charpy Unnotched Impact Strength (73°F)	34	ft·lb/in ²	ISO 179
Notched Izod Impact (73°F, 0.252 in)	0.44	ft·lb/in	ASTM D256
Notched Izod Impact Strength (73°F)	1.1	ft·lb/in ²	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	71		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	160 to 181	°F	ISO 75-2/A
Deflection Temperature Under Load (264 psi, Annealed)	158	°F	ASTM D648
Vicat Softening Temperature	183	°F	ASTM D1525 ⁶
Vicat Softening Temperature			
--	199	°F	ISO 306/A50
--	192	°F	ISO 306/A120
--	158	°F	ISO 306/B50
--	154	°F	ISO 306/B120
Optical	Nominal Value	Unit	Test Method
Transmittance	90.5	%	ASTM D1003
Haze	1.50	%	ASTM D1003

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	320 to 356	°F
Middle Temperature	356 to 392	°F
Front Temperature	356 to 392	°F
Processing (Melt) Temp	356 to 374	°F
Mold Temperature	86 to 122	°F
Injection Pressure	711 to 996	psi
Holding Pressure	142 to 569	psi
Back Pressure	71.1 to 142	psi

Notes

¹ Typical properties: these are not to be construed as specifications.

² 23°C

³ 2.0 in/min

⁴ 0.11 in/min

⁵ 0.079 in/min

⁶ Rate A (50°C/h), Loading 1 (10 N)