

Versaflex™ HC 2110-57B

Thermoplastic Elastomer

PolyOne Corporation

Message:

Versaflex™ HC 2110-57B is a TPE designed for use in the healthcare industry offering low stiction and good compression set.

New Product. Commercial specifications have not been established.

Bonds to Polypropylene

ETO sterilizable and Autoclavable

General Information			
Features	Low compressive deformability		
	Low friction coefficient		
	Good disinfection		
Uses	overmolding		
	Plug		
	Washer		
	Medical/nursing supplies		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.01	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.90 - 1.9	%	ASTM D955
Transverse flow	1.1 - 2.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shaw A, 10 seconds, 23°C)	55		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain, 23°C	2.54	MPa	ASTM D412
300% strain, 23°C	3.85	MPa	ASTM D412
Tensile Strength (Break, 23°C)	3.70	MPa	ASTM D412
Tensile Elongation (Break, 23°C)	350	%	ASTM D412
Tear Strength	25.7	kN/m	ASTM D624
Compression Set			ASTM D395B
21°C, 22 hr	20	%	ASTM D395B
70°C, 22 hr	28	%	ASTM D395B

100°C, 22 hr	37	%	ASTM D395B
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 11200 sec ⁻¹)	9.00	Pa·s	ASTM D3835
Injection	Nominal Value	Unit	
Rear Temperature	166 - 182	°C	
Middle Temperature	193 - 216	°C	
Front Temperature	204 - 227	°C	
Nozzle Temperature	204 - 232	°C	
Mold Temperature	12.8 - 32.2	°C	
Screw Speed	80 - 120	rpm	
Injection instructions			

在使用此产品之前或之后,均须用熔体流动速率较低 (0.5 - 2.5 MFR) 的聚乙烯 (PE) 或聚丙烯 (PP) 彻底进行置换.Versaflex™ HC 2110-57B 具有极好的熔体稳定性.最长停留时间可能会根据机筒尺寸有所变化.通常,如果机器闲置 8 - 10 分钟或以上,则应将机筒排空.不需要干燥注射速度:0.5 - 2.5 英寸/秒保持时间(厚部件):2 - 7 秒保持时间(薄部件):1 - 3 秒

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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

