

Trilliant™ HC HC9820-0030 RS Natural

Polyetheretherketone

PolyOne Corporation

Message:

The Trilliant® specialty compounds offer a complete system of specialty engineered materials, certified processes, services and technical support that enable healthcare OEM's to get to market ahead of the competition. When specified, Trilliant® compounds may incorporate agency rated materials that meet USP Class VI, FDA or ISO 10993 testing requirements.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Biocompatible		
	Good Chemical Resistance		
	Medium Impact Resistance		
	Specialty Grade		
Uses	High Temperature Applications		
	Hospital Goods		
	Medical/Healthcare Applications		
Agency Ratings	USP Class VI		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.30	%	
Across Flow	1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	177	MPa	ASTM D638
Tensile Elongation ² (Break)	9.0	%	ASTM D638
Flexural Modulus	8960	MPa	ASTM D790
Flexural Strength	259	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	120	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed, 3.18 mm)	> 245	°C	ASTM D648
Melting Temperature	360 to 382	°C	
Injection	Nominal Value	Unit	

Drying Temperature	104	°C
Drying Time	3.0	hr
Mold Temperature	163 to 177	°C

NOTE		
1.	Type I, 51 mm/min	
2.	Type I, 51 mm/min	

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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

