

Trilliant™ HC HC9820-0030 RS Natural

Polyetheretherketone

Key Characteristics

neral		USP Class VI, FDA or ISO 1	requirements.
Aaterial Status	Commercial: Active		
Regional Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Filler / Reinforcement	 Glass Fiber, 30% Filler 	by Weight	
Features	BiocompatibleGood Chemical Resistant	Medium Impact Resisence Specialty Grade	stance
Jses	 High Temperature Applications 	Hospital Goods	 Medical/Healthcare Applications
Agency Ratings	 USP Class VI 		
Appearance	 Natural Color 		
Forms	Pellets		
Processing Method	 Injection Molding 		

Technical Properties ¹

		•	
Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.51	1.51	ASTM D792
Molding Shrinkage - Flow	3.0E-3 in/in	0.30 %	ASTM D955
Molding Shrinkage - Across Flow	0.011 in/in	1.1 %	ASTM D955
lechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	25600 psi	177 MPa	ASTM D638
Tensile Elongation ² (Break)	9.0 %	9.0 %	ASTM D638
Flexural Modulus	1.30E+6 psi	8960 MPa	ASTM D790
Flexural Strength	37600 psi	259 MPa	ASTM D790
mpact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	2.2 ft·lb/in	120 J/m	
hermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	> 473 °F	> 245 °C	
Melting Temperature	680 to 720 °F	360 to 382 °C	

Processing Information

	<u> </u>		
Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	220 °F	104 °C	
Drying Time	3.0 hr	3.0 hr	
Mold Temperature	325 to 350 °F	163 to 177 °C	

Copyright ©, 2015 PolyOne Corporation. PolyOne makes no representations, guarantees, or warranties of any kind with respect to the Information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the Information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the Information. PolyOne makes no warranties or guarantees respecting suitability of either PolyOne's products or the Information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the Information and/or use or handling of any product. POLYONE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMPLED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the Information or products reflected by the Information. This data sheet shall NOT operate as permission, recommendation, or inducement to practice any patiented invention without permission of the patient owner.

Trilliant™ HC HC9820-0030 RS Natural

¹ Typical values are not to be construed as specifications.

² Type I, 2.0 in/min (51 mm/min)

CONTACT INFORMATION

Americas United States - Avon Lake +1 440 930 1000 United States - McHenry +1 815 385 8500 Asia China - Guangzhou +86 20 8732 7260 China - Shenzhen +86 755 2969 2888 China - Suzhou +86 512 6823 24 38 China - Suzhou +86 512 6265 2600

Europe Germany - Gaggenau +49 7225 6802 0 Spain - Barbastro (Huesca) +34 974 310 314

<u>Ine</u>

Beyond Polymers. Better Business Solutions.[™] www.polyone.com

PolyOne Americas

PolyOne Asia

Hong Kong -+852 2690 5332

33587 Walker Road Avon Lake, Ohio 44012 United States +1 440 930 1000

+1 866 POLYONE

No. 88 Guoshoujing Road Z.J Hi-tech Park, Pudong Shanghai, 201203, China +86 21 5080 1188

Taiwan - Yonghe City, +886 9396 99740, +886 2929 1849

PolyOne Europe

6 Giällewee +352 269 050 35