

Geon™ Vinyl Wire & Cable WR3790BL Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	Commercial: Active		
Regional Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Features	 Flame Retardant 		
Uses	 Insulation 	Wire & Cable Applications	
RoHS Compliance	 RoHS Compliant 		
Forms	 Pellets 		
Processing Method	Extrusion Coating		

Technical Properties 1

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.28	1.28	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	2380 psi	16.4 MPa	ASTM D638
Tensile Elongation ² (Break)	400 %	400 %	ASTM D638
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 15 sec)	74	74	ASTM D2240
hermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-50.8 °F	-46.0 °C	ASTM D746
UL Temperature Rating ³	221 °F	105 °C	CSA
Aging	Typical Value (English)	Typical Value (SI)	
Retention of Tensile Elongation ⁴			
250°F (121°C), 75.0 mil (1.91 mm)	80 %	80 %	
Retention of Tensile Strength ⁴			
250°F (121°C), 75.0 mil (1.91 mm)	100 %	100 %	
lammability	Typical Value (English)	Typical Value (SI)	Test Method
Oxygen Index (0.125 in (3.18 mm))	25 %	25 %	ASTM D2863
Additional Information			

NOTE: Typical Properties of Molded Slab (0.075"); Not to be Construed as Specifications.

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)	
Melt Temperature	320 to 338 °F	160 to 170 °C	

Notes

- ¹ Typical values are not to be construed as specifications.
- ² Type IV, 20 in/min (510 mm/min)
- ³ 105'C CSA Rated.
- 4 500 hr, UL Standard

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. Poll-YONE MAKES NO 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 patented invention without permission of the patent owner.

Rev: 2014-03-18 Page: 1 of 2

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

+86 755 2969 2888 China - Suzhou +86 512 6823 24 38

China - Suzhou +86 512 6265 2600 Hong Kong -+852 2690 5332

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

Germany - Gaggenau +49 7225 6802 0

Spain - Barbastro (Huesca) +34 974 310 314

PolyOne

Beyond Polymers.

Better Business Solutions. SM

www.polyone.com

PolyOne Americas

33587 Walker Road Avon Lake, Ohio 44012 United States

+1 440 930 1000

+1 866 POLYONE

PolyOne Asia

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

6 Giällewee +352 269 050 35

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. Poll-YONE MAKES NO 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 patented invention without permission of the patent owner.

Rev: 2014-03-18 Page: 2 of 2