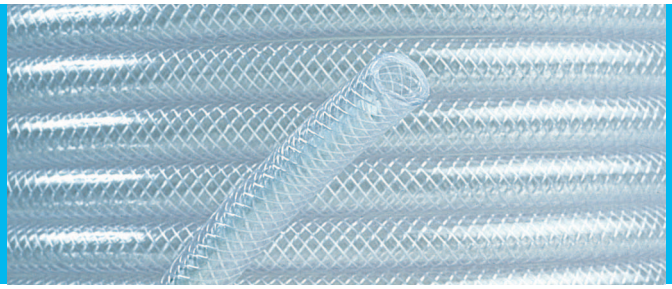
Glass Clear Polyester Reinforced PVC Hose

CR series



Codeflex

General Description

The ingredients used in low toxic PVC compounds which are converted into products for food contact by our compounders, are selected from widely accepted lists issued by organisations such as UK BPP/BIBRA Code of Practice, German BGVV Recommendations and the US Code of Federal Regulations. The directives issued from time to time by The European Commission, on acceptable additives to be used with plastic materials, are being regularly monitored,. When appropriate, Copely will take whatever steps are required to comply with new recommendations when they are issued.

The regulations specifically ensure that the compounds are cadmium free. (Copely were perhaps the first to have a cadmium free specification some 10 years ago).

Our Quality System fully conforms to BS EN ISO 9001:2000 certification and DQS (Deutsche Gesellshaft zur Zertifizierung Qualitatssiche Rungssytemen MBH).

In addition to the above we have a specialist material for the conveyance of beer, cool fluids and semi-fluid foodstuffs - for further information please contact our Sales Office.

(It should be noted that as the application detail is outside the control of Copely Developments, it is the responsibility of the end user to demonstrate the compatibility of the hose with whatever food product is to be conveyed. Statutory instrument No. 1523 requires that there is no deterioration of organoleptic characteristics of the food when in contact with the hose. Such requirements can be met by carrying out appropriate migration tests.)

Food

Abrasive

Water

Chemicals

Gas

Fuel/Oil

Special Features

- Abrasion resistance - excellent
- Made from Cadmium free materials
- Resistance to a wide range of chemicals (see Chemical Resistance Table)
- Good flexibility
- High resistance to acids / alkalis
- Silicone free
- Service temperature -15°c to +60°c
- Toxicity - low and suitable for food use
- Excellent transparency
- Manufactured to comply with BS6066 & ISO 5774
- All finished coils shrink wrapped

Technical Data

U.K. Standard stock Sizes in 30m Coils

Product Ref	Size I.D.	O.D.	Weight per coil kgs	Burst Pressure Bar	Bend Radius mm
CR 03	3	8	1.6	128	20
CR 04	4	9	1.9	108	20
CR 05+	5	10	2.2	80	20
CR 06+	6.3	11.5	2.7	64	28
CR 08+	8	13.5	3.5	64	29
CR 10+	10	16	4.6	60	40
CR 12+	12.5	18.5	5.4	48	55
CR 16+	16	23	8.0	40	95
CR 19+	20	26	9.2	40	135
CR 25+	25	33	13.6	40	210
CR 32	31.5	41	20.1	24	320
CR 38	40	49	23.4	24	420
CR 50	50	62	39.3	12	650

European Sizes and roll lengths (custom manufacture)
(Up to 25mm I.D. = 50m coils; over 25mm I.D. = 25m coils

Product Ref	Size I.D.	O.D.	Weight per coil kgs	Burst Pressure Bar	Bend Radius mm
CR 4/10	4	10	4.1	112	20
CR 5/11+	5	11	4.7	80	20
CR 6/12+	6	12	5.3	64	28
CR 8/14+	8	14	6.4	64	29
CR 9/15+	9	15	7.0	60	35
CR 10/16+	10	16	7.6	60	40
CR 12.5/19.5+	12.5	18.5	9.1	48	55
CR 12.5/19.5+	12.5	19.5	10.9	52	54
CR 12/21+	12	21	14.5	52	53
CR 13/20+	13	20	11.2	48	55
CR 16/24+	16	24	15.6	40	92
CR 19/26+	19	26	15.3	40	135
CR 19/27+	19	27	17.9	44	130
CR 25/34+	25	34	25.9	40	210
CR 32/42	32	42	18.0	24	320
CR 38/48	38	48	20.9	24	420
CR45/55	45	55	24.3	20	650
CR 50/60	50	60	26.8	12	640
CR 50/64	50	64	38.9	16	635

4.1 Safety Factor @ 23°c +3°c

6mm-25mm Black
(100m coil lengths also available ex stock)

6mm-12mm Red, Blue, Green and Yellow
(100m coil lengths also available ex stock)

Conforms to Products Standards:

+ISO 5774 (BS 6066 : 1981)
BS EN ISO 6224 : 1997
TUV Approved

Test Methods & Procedures:

ISO 7751 : 1997
BS EN ISO 1307 : 1996
ISO 1402 : 1994
ISO 4672 : 1988
BS EN 28033 : 1993
ISO 8033 : 1991
BS EN 24671

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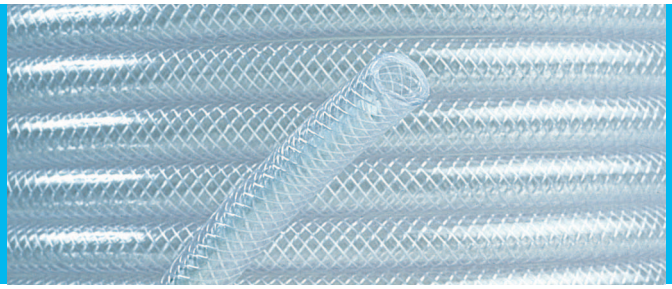
CR series continued



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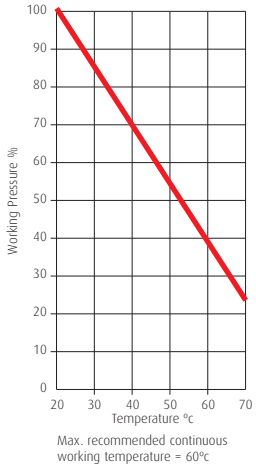
Relationship between Temperature and Working Pressure of CR Reinforced Hoses

The Pressure/Temperature graph provides a guide to the reduced pressure capability expected from the hose when operating at elevated temperatures.

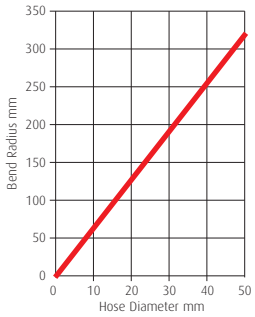
If the temperature is exceeded extreme caution should be exercised and strict account taken of all operating parameters.

Example:-
From the graph
if WP @ 20°c = 12 bar (100%)
then WP @ 50°c = 12 x 55%
= 6.6 bar



Relationship of Bend Radius to Hose Diameter

The graph gives a general guide to the limit of bend capability of the hose. Tighter radii are possible but caution should be exercised if it is used, as this may lead to some flow restriction.



Safety Factors

When selecting a hose for an application it is important that an adequate safety factor is allowed. This will vary according to the type of service envisaged and below is an extract from ISO 7751:1997 to assist an installer in providing a proven level of safety.

Type of Service	Safety Factor (Ratio of min. BP to Design WP)
Water hose, max. WP 10 bar	3.0
Hose for all other liquids, solids suspended in liquid or air and water hose, WP over 10 bar	4.0
Hose for compressed air and other gases	4.0
Hose for liquid media that change into a gaseous state when subjected to a reduction in pressure. ie released to atmosphere	5.0
Jetting hose	2.5

Braiding and Braid Angles

The angle of application of the reinforcing fibres, irrespective of the denier, is critical in the achievement of a 'balanced' pressure hose. Copely manufacture hose with a target angle of 54° 44' (54.73°) being the optimum angle. Variations to the angle are generally for economic reasons, but major variations will have a marked effect on the performance and longevity of the product.