

ISO 20471:2013-03 (E)

High visibility clothing - Test methods and requirements

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Design	3
4.1 Types and classes	3
4.2 Specific design requirements	4
4.3 Size designation	9
5 Requirements for background material, non-fluorescent material and combined performance material	10
5.1 Colour performance requirements of new material	10
5.2 Colour after Xenon test	10
5.3 Colour fastness of background material and all non-fluorescent material layers after test exposure	11
5.4 Dimensional change of background material and non-fluorescent material	11
5.5 Mechanical properties for background material and non-fluorescent material	12
5.6 Physiological performance -- Water vapour and thermal resistance	12
6 Photometric performance requirements for retroreflective material and combined performance material after physical exposure	12
6.1 Retroreflective performance requirements of new material	12
6.2 Retroreflective performance requirements after test exposure	13
7 Test methods	14
7.1 Sampling and conditioning	14
7.2 Determination of colour	14
7.3 Method of determination of retroreflective photometric performance	14
7.4 Retroreflection after exposure	15
7.5 Ageing	15
8 Marking	16
9 Information supplied by the manufacturer	16
Annex A (informative) Information concerning risk situations	17
Annex B (normative) Positioning of bands of retroreflective material on jackets for industrial wash test only	18
Annex C (normative) Method of measuring wet retroreflective performance	19
Annex D (informative) Guidelines for the design of high visibility garments	21
Bibliography	22