

Certificate of Analysis

Producer :	Oceanize
Reference number	Ropes from marine applications GR 3

Norner AS is maintained by ISO 9001:2008 and administrated by certification body "Det Norske Veritas".


The certification of ISO9001 is valid from 2009.04.16

PROPERTIES	UNIT	TEST METHOD	*TEST VALUE	Max / Min
MFR 230°C / 2,16kg	g/10min	ISO 1133	3.9	3.9
Density	Kg/m ³	ISO 1183-1/A	921	921
Tensile modulus @ 23°C 1mm/min	MPa	ISO 527-2	1560	1570/1540
Stress at yield @ 23°C, 50mm/min	MPa	ISO 527-2	33	33
Strain at yield @ 23°C, 50mm/min	%	ISO 527-2	8.1	8.2/8.0
Charpy Impact notched @23 °C**	kJ/m ²	ISO 179/1eA	4.3	4.4/4.2
HDT, Method B (0.45MPa)	°C	ISO 75-2	94	95/93
Ash residue	Wt%	ISO 3451-1	0.39	0.42/0.37
Additives /antioxidant AO1330	ppm	Norner internal	94	100/90
Additives /antioxidant AO1076	ppm	Norner internal	350	370/330
Additives /antioxidant P168	ppm	Norner internal	270	270/260
PE / PP ratio	%	Norner internal	27/73	25/75 28/72

*Test values is based on average from 5 batches

**complete failure, incl hinge

Date 21-Feb-25


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