

Water Blocking Glass Yarns

Rev. No: 11526

WBGYHM

Fokabeks Kablo ve Sistemleri Ltd. Şti.



'where
fiber optic happens'

TECHNICAL DATASHEET

Product	Water Blocking Glass Yarn High Modulus PU Coated
Product PN	FX WBGYHMPU 600/800/1200 TEX
Material	Made from very high modulus, PU coated for low dusting multifilament glass yarns with soft & smooth surface in flat form. Constant diameter. No harmful to humans, nonconductive & nonwoven product. Covered with SAP particles supplies high & quick water absorption with unique swelling properties. Rodent-proof & fire-proof. Natural color.

Features & Benefits	Ideal product to use as high crush resistance, water blocking element for production of optical fiber cables mainly in dry core designs. It supports cable to prevent water migration & penetration to avoid the entrance of the water. Can also be used in any layer of optical fiber cables as strain relief element such as over core & under jacket or metallic armour. Resistive against rodent attacks and fire hazard. Helical and/or longitudinal use is possible.
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Typical Specs	Properties (@T = 23°C & RH = 50%)	Unit	Test Standard	600 TEX	800 TEX	1200 TEX
	Linear Density (g/1000 mt)	Tex	ASTM D 1907	600 - 650	785 - 875	1200 - 1270
	Weight (Average)	mt/kg	–	1670	1250	840
	Tensile Strength	N	ASTM D 885	≥ 300	≥ 400	≥ 600
	LASE @ 0.5%	N	ASTM D 885	≥ 100	≥ 125	≥ 225
	LASE @ 1.0%	N	ASTM D 885	≥ 200	≥ 225	≥ 350
	Young Modulus	GPa	ASTM D 885	≥ 75	≥ 75	≥ 70
	Elongation at break	%	ASTM D 885	1,5 – 3,0	1,5 - 3,0	1,5 – 3,0
	Absorption Capacity, 1 min.	% weight gain	–	≥ 300	≥ 250	≥ 250
	Strand Width	mm	–	2,0 ± 0,4	2,2 ± 0,4	3,0 ± 0,5
	Strand Thickness	mm	–	0,20 ± 0,05	0,22 ± 0,05	0,30 ± 0,05
	Length / Bobbin (Average)	mt	–	12600	12600	8300

Packaging	Yarn is precision, flawless & consistent wound to strong & thick cylindrical cardboard tubes.
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Standart Bobbin Dimensions *

OD (mm)	210 to 225
L (mm)	220 to 270
T (mm)	200 to 250
ID (mm)	94 & 127

* Custom design bobbin dimensions & slitted cardboard tubes available upon request. Maximum one splice is allowed per bobbin with minimum % 90 tensile strength of unspliced yarn.

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TECHNICAL DATASHEET

Product	Water Blocking Soft Glass Yarn High Modulus
Product PN	FX WBGYHMS 600 TEX
Material	Made from high modulus, low dusting multifilament glass yarns with soft & smooth surface in flat form. Constant diameter. No harmful to humans, nonconductive & nonwoven product. Included SAP particles supplies high & quick water absorption with unique swelling properties. Rodent-proof & fire-proof. Natural color.
Features & Benefits	Ideal product to use as high crush resistance water blocking element for production of optical fiber cables mainly in dry core designs & particularly for indoor type cables. It supports cable to prevent water migration & penetration to avoid the entrance of the water. Can also be used in any layer of optical fiber cables as strain relief element. Resistive against rodent attacks and fire hazard. Helical and/or longitudinal use is possible. Serves to keep the cable diameter as much as smaller with its soft structure. User friendly product in indoor optical cables with its softness.

Typical Specs	Properties (@T = 23°C & RH = 50%)	Unit	Test Standard	600 TEX
	Linear Density (g/1000 mt)	Tex	ASTM D 1907	590 - 660
	Weight (Average)	mt/kg	–	1670
	Tensile Strength	N	ASTM D 885	≥ 260
	LASE @ 0.5%	N	ASTM D 885	≥ 80
	LASE @ 1.0%	N	ASTM D 885	≥ 160
	Young Modulus	GPa	ASTM D 885	≥ 70
	Elongation at break	%	ASTM D 885	1,5 – 3,0
	Absorption Capacity, 1 min.	% weight gain	–	≥ 250
	Strand Width	mm	–	2,0 ± 0,4
	Strand Thickness	mm	–	0,20 ± 0,05
	Length / Bobbin (Average)	mt	–	12600

Packaging Yarn is precision, flawless & consistent wound to strong & thick cylindrical cardboard tubes.

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