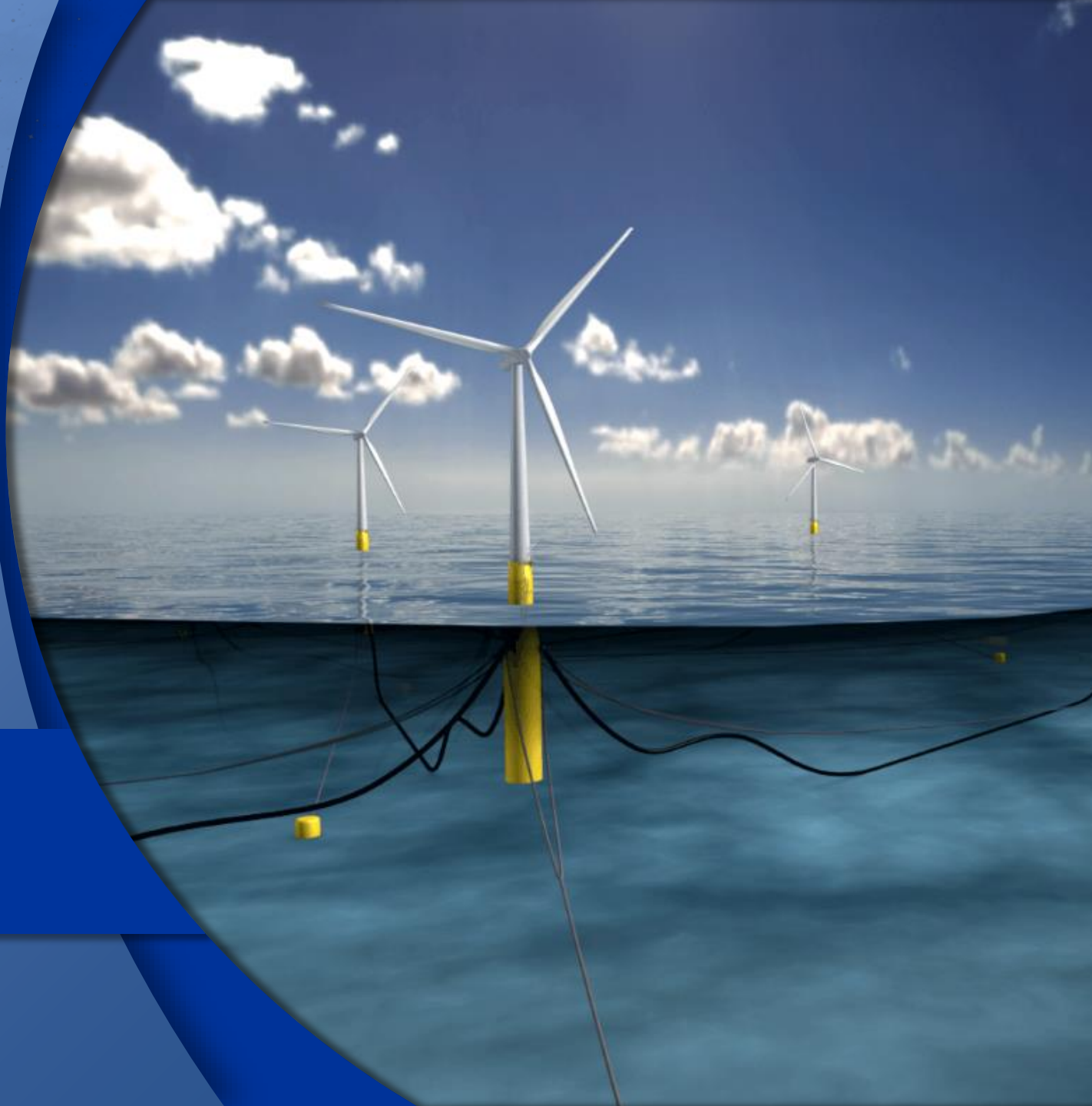
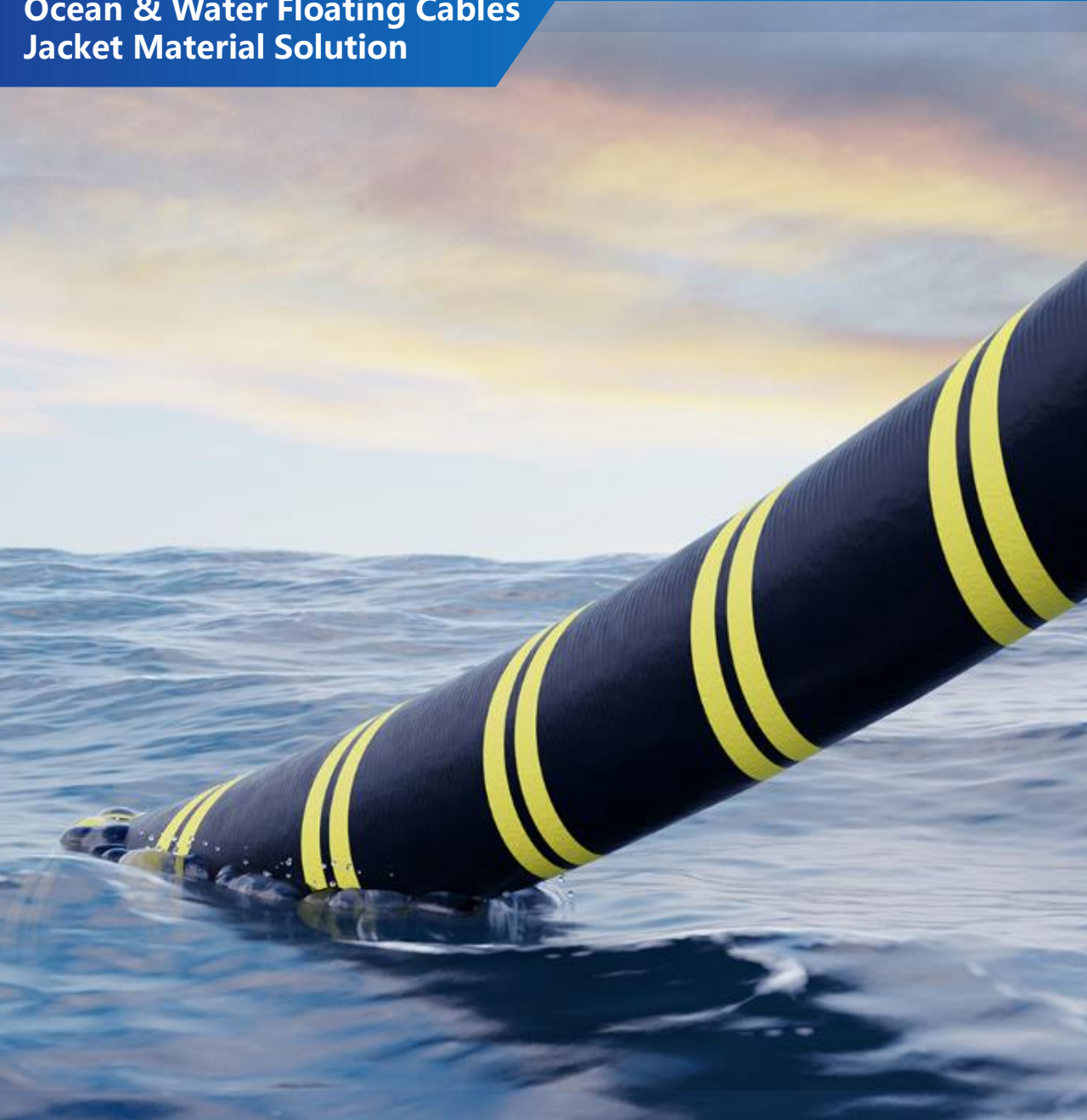


**Ocean & Water Floating Cables Jacket
Material Solution (TPU/TPO)**





Application Advantages

TPU / TPO Jacket Material

1. Advanced controllable chemical foaming technology, customers can simply mix and add in the process of extrusion, which can achieve fix and stable bulk production of foamed cables;
2. The foamed cables have dense surface cortex, even inner bubbles, high foaming rate and density of 0.6-0.9 g/cm³;
3. Hydrolysis resistance: TPU of sheath passed 2000 Hrs hydrolysis resistance test (85°C&85%RH) .

Properties Datasheet

					Model	Model
General characteristics	Material properties	Testing standard	Test condition	Units	1185F-ESF	2885F-ESF
	Material category	-	-	-	TPU Polyether	TPO
	Appearance (light/Semi-matte/Frosted)	-	-	-	Semi-matte	Semi-matte
	Extrusion/injection	-	-	-	Extrusion/ Injection molding	Extrusion
Physical characteristics	Hardness	DIN 53505	155	Shore A	85	86
	Proportion	DIN 53479	-	g/cm ³	0.75~0.9	0.6~0.75
	Melt index	DIN 53735	230°C/5kg	g/10min	1	0.2
	Brittle temperature	ISO 812	-	°C	-60	-50
Mechanical properties	Elongation	DIN 53504	200mm/min	%	500	600
	Tensile Strength	DIN 53504	200mm/min	Mpa	30	14
	Tearing strength	DIN 53515	500mm/min	KN/m	65	35
Hot air aging	Elongation retention rate	DIN 53504	158°C/168h	%		
	Tensile strength retention	DIN 53504	158°C/168h	%		
Electrical performance	Volume resistivity	ASTM D257	-	Ohm-cm	≥1.0E+11	≥1.0E+15
Combustion performance	Vertical burning test	UL 94	3.0/6.0mm	-		
Feature					Foam TPU products	Foam TPO products



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