

MATERIAL TEST DATA

TRP COMPOUND REFERENCE
N^o: TRPlast™ T128 NORSOK M-710

Polymer Type: Norsok M-710 Certified
Perfluoroelastomer (FFKM)



Description

This compound is designed to give the best performance for rapid gas decompression resistance (RGD) and meets the requirements of NORSOK M-710 Rev 2 standard. This black material provides excellent temperature resistance up to +230°C (+450°F) and has similar chemical resistance to that of PTFE but with elastomeric properties comparable to standard fluorocarbon rubbers. Developed for optimum resistance through thermal cycling.

Along with all our TRPlast™ range, this grade is suitable for use in a wide range of applications where other polymers are not suitable. Do not use any TRPlast™ grade with molten alkali metals. Service Temperatures +230°C (+450°F) to -19°C (-2°F).

TYPICAL PHYSICAL PROPERTIES	Property	Typical Values	Test Standard
	Colour	Black	
	Hardness (°IRHD)	89	ISO 48
	Tensile Strength (MPa)	18.9	ISO 37
	Elongation @ Break (%)	93	ISO 37
	Tear Strength (N/mm)	21.4	ISO 34
	Specific Gravity (g/cm ³)	1.96	ISO 2781
	Compression Set Value in Air, 25% Strain, 24 HRS @ 204°C (%)	26.5	ISO 815
	Temperature Retraction TR10 (°C)	-4	ISO 2921

CHEMICAL RESISTANCE	Chemical Group	Rating	Chemical Group	Rating
	Aromatics/Aliphatic oils	1	Ethylene	1
	Acids	1	Esters	1
	Alkalis	1	Ketones	1
	Alcohols	1	Propylene Oxide	1
	Aldehydes	1	Steam/Hot Water	1
	Amines	1	Strong Oxidisers	1
	Ethers	1		
1 Suitable, little or no effect. 2 Minor to moderate effect, not maximum resistance. 3 Moderate to severe effect - may be useful in some limited applications. 4 Unsuitable and not recommended - severe effect More detailed information available on request				

OIL & GAS INDUSTRY / RGD RESISTANT

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TRP COMPOUND REFERENCE N°: TRPlast™ T128 NORSOK M-710 (page 2 of 2)

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AIR-AGEING	NORSOK M710 (Rev. 2, October 2001) in respect of rapid gas decompression resistance in 10% Carbon Dioxide at 150 bar and 100°C		
	Compound	Summary Rating (Average of three)	Result
	T128	1000	Pass

O I L & G A S I N D U S T R Y / R G D R E S I S T A N T

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