EnDura® Z95X

Acrylonitrile Butadiene Rubber

Precision Polymer Engineering Ltd.

Message:

Z95X is a peroxide-cured, explosive decompression resistant HNBR compound.
Z95X provides good chemical resistance to sour gas (H2S), crude oil, lubricating agents, and oil additives, with superior resistance to carbon dioxide, water, drilling mud and amine corrosion inhibitors.
The EnDura® range of elite materials has been specifically developed for Explosive Decompression (ED) resistance in downhole, surface and subsea oilfield equipment.
The high mechanical strength and abrasion resistance of Z95X makes it particularly suitable for dynamic applications.
Key Attributes
Excellent Explosive Decompression resistance
Tested to NORSOK M-710 standard
Tested to NACE TM0187 (Sour Gas) standard
Improved resistance to weather and heat than standard nitrile grades
Good chemical resistance especially to oil and fuel
High mechanical strength
Typical Applications
Low temperature and high pressure environments
Exploration and drilling equipment
Cementing and completion equipment
Subsea valves and pumps
Blow-out preventers (BOPs)
Mud motors
Rotary lip seals

General Information	
Features	High strength Good chemical resistance Fuel resistance Oil resistance Low or no water absorption
Uses	Pump parts Ship application Low temperature application Valve/valve components Oil/Gas Supplies
Appearance	Black

Hardness	Nominal Value	Test Method
IRHD Hardness	89	ASTM D1415, ISO 48

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			
50% strain	10.0	MPa	ASTM D412
100% strain	18.0	MPa	ASTM D412, ISO 37
Tensile Strength (Yield)	32.1	MPa	ASTM D412, ISO 37

Tensile Elongation (Break)	260	%	ASTM D412, ISO 37
Compression Set (150°C, 24 hr)	20	%	ASTM D395, ISO 815
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength in Air (150°C, 70 hr)	3.5	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (150°C, 70 hr)	3.5	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (150°C, 70 hr)	2.0		ASTM D573, ISO 188
Thermal	**Nominal Value**	**Unit**	
Maximum Operating Temperature	180	°C	
Additional Information			
Minimum Operating Temperature: -25°C (-13°F)			

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China