

# Precision Polymer Z85B

Acrylonitrile Butadiene Rubber

Precision Polymer Engineering Ltd.

## Message:

Peroxide cured, Hydrogenated Nitrile Rubber, 76-85 °IRHD. Medium acrylonitrile content (ACN =36%). ASTM designation = HNBR. ASTM D2000 line call-out MDH814, A26, B36, EO16, EO36, F14.  
High strength and excellent chemical resistance. Higher operating temperature than standard nitrile. Suitable for use with sour (H2S) crude oil and gas, which may also include lubricating, oil additives and amine corrosion inhibitors. Good resistance to weathering and ozone.

General Information			
Features	High strength		
	Ozone resistance		
	Good chemical resistance		
	Good weather resistance		
Agency Ratings	ASTM D 2000		
Hardness	Nominal Value		Test Method
IRHD Hardness	80		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	22.0	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	270	%	ASTM D412, ISO 37
Compression Set			
150°C, 22 hr	14	%	ASTM D395B
150°C, 22 hr <sup>1</sup>	14	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (150°C, 70 hr)	-2.5	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (150°C, 70 hr)	-21	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (150°C, 70 hr)	1.0		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature	180	°C	
Low Temperature Resistance - Non Brittle after 3 mins	-18	°C	
Additional Information	Nominal Value	Unit	
Minimum Operating Temperature: -20°C (-4°F)			
NOTE			
1.	Type B		

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