

Precision Polymer A85H

Rubber

Precision Polymer Engineering Ltd.

Message:

Tetrafluoroethylene/Propylene (TFE/P) Rubber, 85-90 °IRHD. Copolymer of tetrafluoroethylene and propylene. Formulated using Aflas® FA-100H. Aflas® is a registered trademark of Asahi Glass.

Excellent resistance to acids, steam, hot water, brine, oils, lubricants and sour oil/gas (H2S). Resistant to all types of hydraulic fluids (including alkyl-aryl phosphate esters), all brake fluids (glycol, mineral and silicone base), amine corrosion inhibitors and additive packages.

General Information			
Features	acid resistance		
	Oil resistance		
	Steam resistance		
Hardness	Nominal Value		Test Method
IRHD Hardness	87		ASTM D1415, ISO 48
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.8	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	160	%	ASTM D412, ISO 37
Compression Set			
200°C, 24 hr	30	%	ASTM D395B
200°C, 24 hr ¹	30	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (200°C, 72 hr)	-6.0	%	ASTM D412, ISO 37
Change in Ultimate Elongation in Air (200°C, 72 hr)	3.0	%	ASTM D412, ISO 37
Change in IRHD Hardness in Air (200°C, 72 hr)	1.0		ASTM D573, ISO 188
Thermal	Nominal Value	Unit	
Maximum Operating Temperature			
--	250	°C	
Intermittent, short term	290	°C	
Low Temperature Resistance			
Non-brittle for 3 minutes	-5	°C	ASTM D2137
Non-brittle for 3 minutes	-5	°C	ISO R812
TR10	2	°C	ISO 2921
TR10	2	°C	ASTM D1329
Additional Information	Nominal Value	Unit	Test Method
Minimum Operating Temperature (static): -25°C (-13°F)Minimum Operating Temperature (dynamic): -5°C (+23°F)			
NOTE			

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