



A4040 Polyethylene Copolymer

A4040 is a high density polyethylene copolymer specifically designed as the base resin for the production of cross-linked pipes according to the PEX B silane process.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.947 g/cc	D4883
Melt Index 190 C/2.16 kg	—	4.1 g/10 min	D1238
Compression Molded Samples			
Tensile Strength (2 in/min)			D638
@ Yield	3,550 psi	24.5 MPa	
@ Break	4,360 psi	30.0 MPa	
Elongation (2 in/min)			D638
@ Yield	11 %	11 %	
@ Break	1,270 %	1,270 %	
Flexural Modulus			D790A
2% Secant Method	125,000 psi	860 MPa	
Notched Izod Impact Strength	1.1 ft-lbf/in	5.9 kJ/m ²	D256
Hardness			D2240
Shore D	61	61	
Vicat Softening Point	254 F	124 C	D1525
Brittleness Temperature	<-103 F	<-75 C	D746
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	157 F	70 C	
Environmental Stress Crack Resistance			D1693
Condition B, 100% Igepal, F50 (hrs.)	10	10	
Oxidation Induction Time			D3895
@ 210 C	>2.5 min	>2.5 min	

¹ Properties will vary and are not to be used for specification purposes.

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Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, call + 1-800-527-5419.

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The Material Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS is altered or modified, different shipping descriptions may apply and the MSDS of the original material should not be used.

For additional information, samples, pricing and availability, please contact:

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