

INEOS HDPE A4040

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

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.

General Information			
Features	Copolymer		
	High Density		
Uses	Piping		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.947	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	10.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	61		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	24.5	MPa	
Break	30.1	MPa	
Tensile Elongation ²			ASTM D638
Yield	11	%	
Break	1300	%	
Flexural Modulus - 2% Secant	862	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	59	J/m	ASTM D256
Notched Izod Impact (Area)	5.90	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	69.4	°C	ASTM D648
Brittleness Temperature	< -75.0	°C	ASTM D746
Vicat Softening Temperature	123	°C	ASTM D1525
Oxidation Induction Time (210°C)	> 2.5	min	ASTM D3895
NOTE			

1.	51 mm/min
2.	51 mm/min

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