

INEOS HDPE A4040

High Density Polyethylene
INEOS Olefins & Polymers USA

Technical Data

Product Description

A4040 is a high-density polyethylene copolymer produced using a supported catalyst process. It is a copolymer resin used mainly for the extrusion of crosslinked pipes according to the silane process.

General

Material Status	• Commercial: Active	
Literature ¹	• Processing - Injection Molding (English)	
	• Processing - Injection Molding for Pipe Resins (English)	
	• Processing - Pipe Extrusion (English)	
	• Technical Datasheet (English)	
Search for UL Yellow Card	• INEOS Olefins & Polymers USA	
Availability	• North America	
Features	• Copolymer	• High Density
Uses	• Piping	
RoHS Compliance	• Contact Manufacturer	
Forms	• Pellets	
Processing Method	• Extrusion	• Pipe Extrusion

Physical	Nominal Value Unit	Test Method
Density	0.947 g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5 g/10 min	ASTM D1238

Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³		ASTM D638
Yield	23.0 MPa	
Break	27.0 MPa	
Tensile Elongation ³ (Break)	600 %	ASTM D638

Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	65	ASTM D2240

Additional Information

Tensile Elongation at Break, ASTM D638, 2 in/min: >600%

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 51 mm/min