

INEOS HDPE CP53-30

High Density Polyethylene Copolymer
INEOS Olefins & Polymers USA

Technical Data

Product Description

CP53-30 is a high density polyethylene copolymer developed for corrugated piping applications. This product is recommended for use in applications that are required to meet AASHTO specifications M 294/MP 7. CP53-30 conforms to ASTM D3350 cell classification 435560A and is listed as a PPI Third Party Certified resin.

General

Material Status	• Commercial: Active	
Literature ¹	• Processing - Injection Molding (English) • Technical Datasheet (English)	
Search for UL Yellow Card	• INEOS Olefins & Polymers USA	
Availability	• North America	
Features	• Copolymer	• High Density
Uses	• Corrugated Pipe	
Agency Ratings	• AASHTO M294/MP 7	• ASTM D 3350 PE435560A
RoHS Compliance	• Contact Manufacturer	
Forms	• Pellets	
Processing Method	• Pipe Extrusion	

Physical	Nominal Value Unit	Test Method
Density	0.953 g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance ³	> 1000 hr	ASTM F2136
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ⁴		ASTM D638
Yield	26.9 MPa	
Break	31.7 MPa	
Tensile Elongation ⁴		ASTM D638
Yield	9.3 %	
Break	> 600 %	
Flexural Modulus - 2% Secant	1160 MPa	ASTM D790
Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	64	ASTM D2240
Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	< -118 °C	ASTM D746

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 SP-NCLS

⁴ 51 mm/min