

# CP53-30 Polyethylene Copolymer Datasheet

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.

## Typical Properties<sup>1</sup>

	Values		ASTM Method
	English Units	SI Units	
Density	0.953 g/cc	-	D 4883
Melt Index <sup>2</sup>	0.25 g/10 min	-	D 1238
Tensile Strength			D 638
@ Yield (2 in/min)	3,900 psi	27.0 MPa	
@ Break (2 in/min)	4,600 psi	31.7 MPa	
Elongation			D 638
@ Yield (2 in/min)	9.3%	9.3%	
@ Break (2 in/min)	>600%	>600 %	
Flexural Modulus <sup>3</sup>	168,000 psi	1158 MPa	D 790
Hardness (Shore D)	64	64	D 2240
Brittleness Temperature	≤-103 F ° F	≤-75 ° C	D 746
SP-NCLS ESCR	>1,000 hrs		F 2136

<sup>1</sup> Typical properties will vary within specification limits.

<sup>2</sup> 190° C/21,600 g

<sup>3</sup> 2% Secant-Method

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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.

## Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at [www.ineos-op.com](http://www.ineos-op.com). Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

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 O&P 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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