

CP53-30 Polyethylene Copolymer

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 is a listed PPI Third Party Certified resin.

Typical Properties¹

	Values		ASTM Method
	English Units	SI Units	
Resin			
Density	—	0.953 g/cc	D4883
Melt Index 190 C/2.16 kg	—	0.35 g/10 min	D1238
Melt Index 190 C/21.6 kg	—	25 g/10 min	D1238
Compression Molded Samples			
Tensile Strength (2 in/min)			D638
@ Yield	3,700 psi	25.5 MPa	
@ Break	4,900 psi	33.8 MPa	
Elongation (2 in/min)			D638
@ Yield	9.0 %	9.0 %	
@ Break	>600 %	>600 %	
Flexural Modulus			D790A
2% Secant Method	142,000 psi	979 MPa	
Notched Izod Impact Strength	8.6 ft-lbf/in	45.3 kJ/m ²	D256
Hardness			D2240
Shore D	65	65	
Vicat Softening Point	257 F	125 C	D1525
Brittleness Temperature	<-180 F	<-118 C	D746
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	74.2 F	23.4 C	
Environmental Stress Crack Resistance			D1693
Condition B, 100% Igepal, F50	>1,000 hrs.	>1,000 hrs.	
Oxidation Induction Time			D3895
@ 210 C	>58 min	>58 min	
NCTL ESCR (Single Point)	>1,000 hrs.	>1,000 hrs.	D5397
Cell Classification	435560A	435560A	D3350

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.

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. 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 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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