# 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 Properties<sup>1</sup>

	Values		<b>ASTM</b>
	<b>English Units</b>	SI Units	Method
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	$45.3 \text{ kJ/m}^2$	D256
Hardness		<b>3</b> ·	D2240
Shore D	65	65	
Vicat Softening Point	257 F	125 C	D1525
Brittleness Temperature	<-180 F	<-118 C	<b>D746</b>
Heat Deflection Temperature			D648
@ 66 psi (455 kPa)	165 F	74 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.	<b>D</b> 5397
Cell Classification	435560A	435560A	D3350

<sup>&</sup>lt;sup>1</sup> Properties will vary and are not to be used for specification purposes.

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For additional information, samples, pricing and availability, please contact:

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