

INEOS HDPE CP53-30

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

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.

General Information			
Features	Copolymer		
	High Density		
Uses	Corrugated Pipe		
Agency Ratings	AASHTO M294/MP 7		
	EC 1907/2006 (REACH)		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.35	g/10 min	
190°C/21.6 kg	25	g/10 min	
Environmental Stress-Cracking Resistance			
-- ¹	> 1000	hr	ASTM D5397
100% Igepal, F50	> 1000	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield	25.5	MPa	
Break	33.8	MPa	
Tensile Elongation ³			ASTM D638
Yield	9.0	%	
Break	> 600	%	
Flexural Modulus - 2% Secant	979	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	460	J/m	ASTM D256
Notched Izod Impact (Area)	45.3	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	23.4	°C	ASTM D648

Brittleness Temperature	< -118	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525
Oxidation Induction Time (210°C)	> 58	min	ASTM D3895
Cell Classification	435560A		ASTM D3350

NOTE

- | | |
|----|---------------------|
| 1. | NCTL (Single Point) |
| 2. | 51 mm/min |
| 3. | 51 mm/min |

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