

INEOS HDPE K44-24-122

High Density Polyethylene Copolymer

INEOS Olefins & Polymers USA

Message:

K44-24-122 is a natural high density polyethylene copolymer designed specifically for pipe coating and extrusion. It complies with the virgin polyethylene resin requirements in CSA Z245-21, and is also listed with the Plastics Pipe Institute as a PE 3408.

General Information			
Features	Copolymer		
	High Density		
Uses	Coating Applications		
	Piping		
Agency Ratings	CSA Z245.21		
	EC 1907/2006 (REACH)		
	PPI PE-3408		
RoHS Compliance	Contact Manufacturer		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.944	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.37	g/10 min	
190°C/21.6 kg	30	g/10 min	
Environmental Stress-Cracking Resistance (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 ¹			ASTM D638
Yield	20.7	MPa	
Break	31.0	MPa	
Tensile Elongation ²			ASTM D638
Yield	11	%	
Break	> 700	%	
Flexural Modulus - 2% Secant	793	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	530	J/m	ASTM D256

Notched Izod Impact (Area)	52.6	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -118	°C	ASTM D746
Vicat Softening Temperature	128	°C	ASTM D1525
Oxidation Induction Time (220°C)	> 10	min	ASTM D3895
Thermal Stability	> 260	°C	ASTM D3350
Cell Classification	335440A		ASTM D3350
PENT - Notch Tensile	> 10	hr	ASTM F1473
NOTE			
1.	51 mm/min		
2.	51 mm/min		

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