

# K44-24-122 Polyethylene Copolymer

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.

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

Resin	Values		ASTM Method
	English Units	SI Units	
Density	—	0.944 g/cc	D4883
Melt Index 190°C/2.16 kg	—	0.35 g/10 min	D1238
Melt Index 190°C/ 21.6 kg	—	30 g/10 min	D1238
<b>Compression Molded Sample</b>			
Tensile Strength (2 in/min)			D638
@ Yield	3,000 psi	21.8 MPa	
@ Break	4,500 psi	31.0 MPa	
Elongation (2 in/min)			D638
@ Yield	10.9 %	10.9 %	
@ Break	>700%	>700%	
Flexural Modulus			D790A
2% Secant Method	115,000 psi	793 MPa	
Notched Izod Impact Strength	10 ft-lbf/in	52.6 kJ/m <sup>2</sup>	D256
Hardness			D2240
Shore D	65	65	
Vicat Softening Point	262 F	128 C	D1525
Brittleness Temperature	<-180 F	<-118 C	D746
Environmental Stress Crack Resistance			D1693
Condition B, 100% Igepal, F50 (hrs.)	>1,000	>1,000	
Notched Tensile (PENT)	>10 hrs.	>10 hrs.	F1473
Oxidation Induction Time @ 220°C	>10 min	>10 min	D3895
Thermal Stability	>428 F	>220 C	D3350
Cell Classification	335440A	335440A	D3350

<sup>1</sup> Typical properties will vary and are not to be used for specification purposes.