



CCI PIPELINE SYSTEMS

Specifications & Certificates of Compliance: CCI Models CSC and CSS Casing Spacers EPDM vs. PVC Liner

The CCI Models CSC and CSS casing spacers are lined with a ribbed EPDM extrusion having a retaining section that overlaps the edges of the shell to prevent slippage. EPDM liner is the choice of CCI since it is a highly flexible, stable material that exhibits a balance of physical properties and chemical resistance, which makes it ideal for this industry specific application. EPDM liner is ideal for outdoor applications because of its excellent resistance to ozone, oxidants, and severe weather conditions. Other outstanding characteristics of EPDM liner include excellent color stability, heat resistance, and dielectric qualities.

While PVC liner exhibits somewhat similar, yet inferior characteristics as EPDM liner, PVC is environmentally damaging. The PVC life cycle -- its production, use, and disposal -- results in the release of toxic, chlorine-based chemicals. The chlorine reacts with other chemicals to form unwanted by-products like dioxin, PCBs, hexachlorobenzene, acidic gases, and others.

The combination of inferior industry specific characteristics and environmental concerns surrounding PVC makes EPDM liner the choice for CCI Models CSC and CSS casing spacers.

CHARACTERISTICS COMPARISON CHART EPDM vs. PVC

Physical Properties	EPDM	PVC
Hardness Range Shore A	85-90	80-90
Electrical Resistivity	Excellent	Above Average
Impact Resistance	Average	Average
Abrasion Resistance	Average	Fair
Tear Resistance	Average	Fair
Weather Resistance	Above Average	Average
Oxidation Resistance	Excellent	Average
Ozone Resistance	Excellent	Average
Resiliency	Average	Fair
Max Service Temp (°F)	260°F	150°F
Solvent Resistance	EPDM	PVC
Acids	Excellent	Average
Caustics	Excellent	Average
Water	Excellent	Above Average
Ketones	Excellent	Poor
Alcohol	Excellent	Excellent
Esters	Excellent	Poor