

Product Description:

SPPJ-H94 is a black high-density polyethylene compound formulated for coating steel pipes in multilayer systems. It incorporates 2.4% well distributed carbon black to guarantee outstanding resistance to weathering. The addition of a combination of antioxidant enhances its long-term properties. SPPJH94 is well-suited for challenging laying conditions at both low and high ambient temperatures. Under specific circumstances, it may be feasible to achieve high processing speeds and reduce layer thickness. SPPJH94 is designed for use in temperatures ranging from -40 to +80 °C.

Appearance: Black compound

Properties	Standard & Test Method	Unit	Typical Value
Density	ISO 1183	gr/cm ³	0.942
Melt Flow Index (MFI) (190 °C/2.16 kg)	ISO 1133	g/10 min	0.3
Melt Flow Index (MFI) (190 °C/5 kg)	ISO 1133	g/10 min	1.40
Carbon black content	ASTM D1603	%	2.4
Tensile Strength	ASTM D638/IEC 60811-1-1	Mpa	Min 28
Tensile Strain		%	Min 1000
Thermal Ageing	Annex G (ISO 21809-1)	%	Δ MFI \leq 35
UV resistance	Annex G (ISO 21809-1)	%	Δ MFI \leq 35
O.I.T at 220°C	ISO 11357	min	40
Melting point	ISO 3146	°C	Min 125
E.S.C.R(50°C.Cond.B-10% Igepal)	ASTM D1693	hr	>5000
Hardness	ASTM D2240	Shore D	56
Vicat Softening Temperature	ISO 306	°C	\geq 120
Brittleness Temperature	ASTM D746	°C	<-70
Carbon black Dispersion	BS 2782 , ISO 18553	---	Max 2.5
Water content	ISO 15512	%	\leq 0.05