

ETILINAS PC4012

High Density Polyethylene
POLYETHYLENE MALAYSIA SDN BHD

Message:

ETILINAS PC4012 is designed specifically for coating of metal pipes and tubes.
ETILINAS PC4012 is based on a special high density copolymer with excellent resistance to environmental stress cracking, and contains suitable additives for ease of coating manufacture and to ensure long term weathering resistance.

General Information			
Additive	Carbon black (2%)		
Features	High ESCR (Stress Cracking Resistance)		
	Copolymer		
	Good weather resistance		
Uses	Pipeline coating		
Appearance	Black		
Forms	Particle		
Processing Method	Coating		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.20	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (F0)	1000	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	23.0	MPa	ISO 527-2/2
Tensile Strain (Break)	600	%	ISO 527-2/2
Flexural Modulus	850	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-100	°C	ASTM D746
Vicat Softening Temperature	120	°C	ISO 306/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	25	kV/mm	ASTM D149
Additional Information			
Density of Compound, ISO 1872/1, Annealed: 953 kg/m ³ Carbon Black Content, ISO 6964: 2.25%Thermal Conductivity, BS 874, 23°C: 0.4 W/m/°COxidation Induction Time, ISO TR10837, 210°C: >20 min			
Extrusion	Nominal Value	Unit	
Melt Temperature	200 - 225	°C	
Extrusion instructions			

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