

ETILINAS HD12BK

High Density Polyethylene
POLYETHYLENE MALAYSIA SDN BHD

Message:

ETILINAS HD12BK is designed specifically for the manufacture of pressure pipe and pipe fittings for use in potable water, drainage, sewage and slurry pipeline systems.

ETILINAS HD12BK is based on a special high density copolymer with excellent resistance to environmental stress cracking and abrasion, and meets the ISO classification PE80 for pipe materials.

General Information			
Additive	Carbon black (2%)		
Features	High ESCR (Stress Cracking Resistance)		
	Copolymer		
	Good wear resistance		
Uses	Piping system		
	Accessories		
Appearance	Black		
Forms	Particle		
Processing Method	Pipeline extrusion molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.58	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (F0)	1000	hr	ASTM D1693B
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	-70.0	°C	ASTM D746
Vicat Softening Temperature	120	°C	ISO 306/A
CLTE - Flow (20 to 60°C)	1.5E-4	cm/cm/°C	ASTM D696
Additional Information			
Density of Compound, ISO 1872/1, Annealed: 953 kg/m ³ Carbon Black Content, ISO 6964: 2.25%Minimum Required Strength (MRS), ISO TR9080, 97.5% LCL: 8.0 MPaThermal Conductivity, BS 874, 23°C: 0.4 W/m/°CVolume Resistivity, BS 2782:23A: > 1e13 ohm-cmOxidation Induction Time, ISO TR10837, 200°C: >40 minOxidation Induction Time, ISO TR10837, 210°C: >20 min			
Extrusion	Nominal Value	Unit	
Melt Temperature	200 - 230	°C	

Extrusion instructions

Suggested Screen Pack: 40/80 Mesh

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