ETILINAS MD20YW

Medium Density Polyethylene

POLYETHYLENE MALAYSIA SDN BHD

Message:

ETILINAS MD20YW is designed specifically for the manufacture of pressure pipe and pipe fittings for use in gas distribution systems.
ETILINAS MD20YW is based on a special non-cadmium yellow pigmented medium density copolymer with exceptionally high resistance to environmental stress cracking and meets the ISO classificationPE80 for pipe materials.

General Information	
Features	High ESCR (Stress Cracking Resistance) Copolymer
Uses	Piping system Accessories
Appearance	Yellow
Forms	Particle
Processing Method	Pipeline extrusion molding Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.85	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (F0)	1000	hr	ASTM D1693B
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	18.0	MPa	ISO 527-2/2
Tensile Strain (Break)	600	%	ISO 527-2/2
Flexural Modulus	700	MPa	ISO 178
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	-70.0	°C	ASTM D746
Vicat Softening Temperature	116	°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: 940 kg/m³Minimum Required Strength (MRS), ISO TR9080, 97.5% LCL: 8.0 MPaThermal Conductivity, BS 874, 23°C: 0.4 W/m/°CVolume Resistivity, BS 2782:230A: >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 - 225	°C

Extrusion instructions
Suggested Screen Pack: 40/80 Mesh

Recommended distributors for this material

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