



台灣塑膠工業股份有限公司聚烯事業部

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Formosa Plastics Corporation

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Technical Data Sheet

Taisox 8001U-Natural

1. Product description

8001U are an ethylene/butene copolymer. The trade name is TAISOX. This product manufactured by the CSTR slurry process. The copolymer designed for the extrusion of various pressure pipes. 8001U contains light stabilizer.

According to ISO 12162:1995(E) is the PE pipe grade TAISOX 8001U natural classified PE 100 at 20 and 50 years exceeds a MRS of 10Mpa.

Typical applications of 8001U are potable water pipe, sewer & drain pipe, telecommunication system, industrial pipe circular cages etc .It provides good creep resistance, excellent ESCR, and high mechanical properties.

2. Typical properties

Properties	Units	Test Method	Typical Value
Melt Index MI _{2.16}	g/10min	ASTM D1238	0.05
Melt Index MI ₅	g/10min	ASTM D1238	0.23
Melt Index MI _{21.6}	g/10min	ASTM D1238	7.0
Density	g/cm ³	ASTM D1505	0.948
Thermal properties			
Melting point		DSC	129
Brittleness point		ASTM D746	<-70
Mechanical properties			
Tensile strength at yield	Kg/cm ²	ASTM D638	240
Tensile strength at break	Kg/cm ²	ASTM D638	360
Elongation at break	%	ASTM D638	850
Izod Impact Strength	Kg-cm/cm notch	ASTM D256	>25
Hardness	Shore D	ASTM D2240	64
MRS	Mpa	ISO 9080	10
Thermal stability(200)	min	ISO/TR 10837	>30

*Data shown are average values and should not be examined for specifications

3. Processability

TAISOX8001 HDPE Resin can be extruded at temperature profiles between 185 and 215°C with a melt temperature between 200 and 220°C.

extruder temperature set for reference :

Cylinder 185-210

Die 200-215

Melt 200-220

4. Regulatory status

Please contact your Formosa Plastics corporation representative for detailed information and other documents.

5. Packing

FPC supplied in 25Kg/paper bag or 1000Kg/bulk bag.

6. Storing

Resin must be stored at temperature under 40 . The sun radiation, heat, humidity is prohibit.

The expiration date is 3 years.

Last Update: Nov. 11, 2010