

Polylink Polymer Pipe PP 410/401

Polypropylene

Polylink Polymers (India) Ltd.

Message:

This Compound utilizes the system for cross linking for polyethylene developed by DOW Corning and known as Sioplan. It is a two component comprising a silylated Ethylene Polymer known as the graft copolymer PP 410 and a master batch PP 401 containing a cross linking catalyst. The two materials are normally used in the ratio of 95 parts graft to 5 parts catalyst master batch.

General Information			
Features	Crosslinkable		
	Good processing stability		
Uses	Piping system		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	22.0	MPa	IEC 60811
Tensile Strain ² (Break)	400	%	IEC 60811
Flexural Modulus	1200	MPa	ASTM D790
Flexural Strength	27.5	MPa	ASTM D790
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (135°C, 168 hr)	10	%	IEC 60811
Change in Tensile Strain at Break in Air (135°C, 168 hr)	-15	%	IEC 60811
Thermal	Nominal Value	Unit	Test Method
Thermoset			IEC 60811
Elongation underload	85	%	IEC 60811
Permanent elongation after cooling	5.0	%	IEC 60811
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	140	°C	
Cylinder Zone 2 Temp.	175	°C	
Cylinder Zone 3 Temp.	185	°C	
Cylinder Zone 4 Temp.	195	°C	
Cylinder Zone 5 Temp.	205	°C	
Extrusion instructions			
Zone 6 : 210°C-235°C Screw water temperature : 60 to 70°C Screens : 30, 50, 100 (mesh apertures per linear inch) L/D Ratio: 20 Compression: 2.5:1			
NOTE			
1.	50 mm/min		

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