
Technical Data Sheet

PTAcross1105/1213

Cross-linkable Polyethylene

Product Description

PTAcross 1105 is a cross-linkable natural polyethylene compound, specially designed for Wire and Cable insulation applications.

The PTAcross 1105 base material in combination with the PTAcross 1213 catalyst master-batch will accelerate the moisture-induced and contains permanent scorch retardant additives which ensure safe processing and gives a possibility to use a highly active crosslinking catalyst.

Addition of PTAcross 1213 to PTAcross1105 lead to excellent thermo - oxidative stability also in contact with copper as well as aluminum.

PTAcross 1105 is used with PTAcross 1213 (a catalyst master-batch) in the ratio of 95:5

General

Features	• Clean/High Purity	• Excellent Processing
Uses	• Appliance Wire Jacketing	• Cable Jacketing • Insulation
Processing Method	• Extrusion	
Additives	• Anti-oxidant	• Metal Deactivator
Appearance	• Natural	
Form	• Pellets	
Packaging	• 25 Kg moisture resistance sacks	

Physical	Typical Value	Unit	Test Method
Density	0.93±0.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5 kg)	3.0±1.0	g/10 min	ASTM1238

Thermal	Typical Value	Unit	Test Method
Hot Set test(200°C,0.3Mpa)			IEC 60811-2-1
Elongation under load	<80	%	
Permanent deformation	<10	%	

Ageing	Typical Value	Unit	Test Method
Change of Tensile after Ageing (135°C,168 hr)	<15	%	

Mechanical	Typical Value	Unit	Test Method
Tensile Strength	>16	MPa	ISO527
Elongation (Break)	>400	%	ISO527
Electrical	Typical Value	Unit	Test Method
Dielectric Constant (50 Hz)	< 2.3	-	IEC 60250
Dissipation Factor (50 Hz)	< 0.0005	-	IEC 60250
DC Volume Resistivity	1000	Ω .cm	IEC 60093
Dielectric Strength	> 22	kV/mm	IEC 60243

Extrusion

As a guide the following temperature profile is recommended:

Zone 1	Zone 2	Zone 3	Zone 4	Head	Die
130	150	170	190	210	220

Storage

This product should be stored in dry place away from sunlight
