

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 sacks				
Physical	Typical Value	Unit	Test Method		
Density	0.93±0.05	g/cm³	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	<15	%			
(135 ^o c,168 hr)					

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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	10P	$\Omega.cm$	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.



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