



Technical Data Sheet

PTAcross1107/1307

Cross-linkable Polyethylene

Product Description

PTAcross 1107 is a cross-linkable polyethylene compound, specially designed for Wire and Cable insulation applications.

PTAcross 1107 can also be used for other applications requiring high or low working temperatures and improved chemical resistant.

The PTAcross 1107 base material in combination with the PTAcross 1307 catalyst master-batch will accelerate the moisture-induced and gives a possibility to use a highly active crosslinking catalyst.

PTAcross 1107 is used with PTAcross 1307 (a catalyst master-batch) in the ratio of 95:5

General

Features	• Black/High Purity	• Excellent Processing
Uses	• Appliance Wire Jacketing	• Self-Supporting cable insulation
Processing Method	• Extrusion	
Additives	• Anti-oxidant	• Carbon Black
Appearance	• Black	
Form	• Pellets	
Packaging	• 25 Kg moisture resistance sacks	

Physical	Typical Value	Unit	Test Method
Density	0.94	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5 kg)	4.0±1.0	g/10 min	ASTM 1238
Carbon Black Content	2.5±0.5	%	ASTM D1603

Thermal	Typical Value	Unit	Test Method
Hot Set test(200°C,0.3Mpa)			IEC 60811-2-1
Elongation under load	<85	%	
Permanent deformation	<10	%	

Ageing	Typical Value	Unit	Test Method
Change of Tensile after Ageing (135°C,168 hr)	<10	%	



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Mechanical	Typical Value	Unit	Test Method
Tensile Strength	>17	MPa	ISO527
Elongation (Break)	>400	%	ISO527
Electrical	Typical Value	Unit	Test Method
Dielectric Constant (50 Hz)	< 2.9	-	IEC 60250
Dissipation Factor (50 Hz)	< 0.001	-	IEC 60250
DC Volume Resistivity	10P	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
140	160	180	200	220	230

Storage

This product should be stored in dry place away from sunlight