

ADD UNITED

Addcross 1207/1357

Cross-linkable Polyethylene

Product Description

Addcross 1207 is a cross-linkable polyethylene compound, specially designed for Wire and Cable insulation applications and meets the requirement of the IEC 60502-1 and HD626

The Addcross 1207 base material in combination with the addcross 1357 catalyst master-batch will accelerate the moisture-induced crosslinking reaction Addcross 1207 is based upon a low density polyethylene and contains permanent scorch retardant additives which ensure safe processing and gives a possibility to use a highly active crosslinking catalyst. Addcross 1357 contains antioxidant and drying agent. Addcross 1207 is used with Addcross 1357 (a catalyst master-batch) in the ratio of 95:5

General

Additive	• Unspecified Additive		
Features	• Black/High Purity	• Cross-linkable	• Good Process ability
Uses	• Appliance Wire Jacketing	• Cable Jacketing	• Self-Supporting cable insulation
Appearance	• Black		
Form	• Pellets		
Packaging	• 25 Kg moisture resistance sacks		
Processing Method	• Extrusion		

Physical	Nominal Value	Unit	Test Method
Density	0.935	g/cm ³	ISO 1183
Melt Mass-Flow Rate(MFR)(190°C/5kg)	3.0	g/10 min	ISO 1133

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress(Yield)	> 18.0	MPa	IEC 60811-1-1
Tensile Strain(Break)	> 420	%	IEC 60811-1-1

Thermal	Nominal Value	Unit	Test Method
Hot Set Test			IEC 60811-2-1
200°C, Elongation under load, 0.30MPa	< 80	%	
200°C, Permanent deformation, 0.30MPa	< 10	%	

Ageing	Nominal Value	Unit	Test Method
Retention of Tensile Strength 150°C, After Ageing 240 hr	> 85	%	IEC 60811-1-2

Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (50Hz)	< 2.9	-	IEC60250
Dissipation Factor (50Hz)	< 0.001	-	IEC60250
DC Volume Resistivity	10 ¹⁶	Ω.cm	IEC60093
Dielectric Strength	> 22	kV/mm	IEC60243-1

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

Crosslinking

These products can be cross-linked by immersion in hot water or exposed to low pressure steam at a temperature up to 90°C. This time period may be varied due to the humidity, thickness of insulation, reel size and temperature. Recommended Time to reach Hot Set elongation value of 100% at different insulation thickness is listed here:

Insulation thickness (mm)	Time (hr)
0.7	4
1.8	6

Note

- Test results have been achieved in lab condition with a ratio of 95 to 5. Miss handling may give different result and sometimes outside of the standard
- The specifications given are the guidelines only.
- Above compound is suitable to run on different machines; however some adjustments may be required on individual machine.
- The customers are advised to check the quality, prior to commercial use. There is no guarantee and/or warrantee what so ever, after processing



MALAYSIA

1-11-3A, MENARA BANGKOK BANK (BERJAYA CENTRAL PARK),
JALAN AMPANG, 50250 KUALA LUMPUR, MALAYSIA.
EMAIL: info@addbgg.com
TELL: +60-3-2770 3625

CANADA

4850 COTE-DES-NEIGES RD, MONTREAL
QUEBEC H3V 1G5
EMAIL: info@addbgg.com
TELL: +1-514 210 0990

SOUTH-KOREA

1527-2 Sangin-dong, Dalseo-gu, Daegu,
South Korea
EMAIL: info@addbgg.com
TELL: +82-10 5096 9601