

AEI TP-0810

Polyethylene
AEI Compounds Limited

Message:

Easy strip, low-smoke, halogen free, flame retardant thermoplastic compound for cable sheathing.

This is a flame-retardant low-smoke thermoplastic sheathing compound which has been especially developed with low tear strength and improved flexibility to facilitate easy removal from cores. The compound meets the requirements of limited toxic and corrosive fume emission, being designed to meet the general requirements of BS7655 Section 6.1 type LTS 1 to 4.

TP-0810 is available in the following versions:

TP-0810N (natural colour)

TP-0810B (coloured black)

TP-0810NU (with a non-staining UV stabiliser added)

TP-0810BU (carbon black added to give UV stability)

General Information			
Additive	Flame retardancy		
Features	Low smoke		
	Peelable		
	Good flexibility		
	Halogen-free		
	Flame retardancy		
Uses	Flame Retardant Jacketing		
	Cable sheath		
	Wire and cable applications		
Agency Ratings	BS 7655 LTS1-2-3-4		
	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	BS 2782 620A
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shaw A	96		
Shaw D	56		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	12.0	MPa	IEC 60811-1-1
Tensile Strain			
Fracture	150	%	IEC 60811-1-1
Fracture, -30°C ¹	60	%	IEC 60811-1-4

Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength			IEC 60811-1-2
70°C, 168 hr, in water	-20	%	IEC 60811-1-2
100°C, 168 hr	-7.0	%	IEC 60811-1-2
Change in Tensile Strain at Break			IEC 60811-1-2
70°C, 168 hr, in water	-5.0	%	IEC 60811-1-2
100°C, 168 hr	-20	%	IEC 60811-1-2
Thermal	Nominal Value	Unit	Test Method
Deformation			IEC 60811-3-1
80°C	10	%	IEC 60811-3-1
90°C	15	%	IEC 60811-3-1
Cold shock (-30°C)	pass		IEC 60811-1-4
Cold bending (-30°C)	pass		IEC 60811-1-4
Temperature index	260	°C	ISO 4589-3
Tear Strength	5	N/mm	BS 6469
Head Temperature	160	°C	
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	33	%	ISO 4589-2
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	120	°C	
Cylinder Zone 2 Temp.	130	°C	
Cylinder Zone 3 Temp.	140	°C	
Cylinder Zone 4 Temp.	150	°C	
Melt Temperature	< 170	°C	
Die Temperature	160	°C	
Extrusion instructions			
An extruder with an L/D ratio (length/diameter) of 15-24 and an extruder screw with a compression ratio 1.5:1 or less are recommended.			
NOTE			
1.	pass		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT