

HANWHA CLNA-8141SC

Low Density Polyethylene

Hanwha Chemical

Message:

HANWHA Wire & Cable Compound CLNA-8141SC is a low density, crosslinkable polyethylene compound designed for high voltage (154kV and higher) power cable insulation requiring a high degree of cleanness. It has a extremely low level of contamination and proper balance of non-staining antioxidant and peroxide to ensure thermal stability and optimum cure levels.

General Information			
Additive	Antioxidation		
Features	Antioxidation		
	Crosslinkable		
	Good electrical performance		
	Heat resistance, high		
	Thermal stability, good		
Uses	Wire and cable applications		
	High voltage insulation		
Agency Ratings	AEIC CS7		
	AEIC CS8		
	BS 6622		
	HD 620 S1		
	HD 632 S1		
	ICEA S-66-524		
	ICEA S-93-639		
	ICEA S-94-649		
	IEC 60502		
	IEC 60840		
	VDE 0273		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	ASTM D1505
Degree of Crosslinking	82	%	ASTM D2765A
Thermoset		%	IEC 60811-2-1
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	19.6	MPa	ASTM D638

Tensile Elongation (Break)	550	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (136°C, 168 hr)	< -5.0	%	ASTM D573
Change in Ultimate Elongation in Air (136°C, 168 hr)	< -5.0	%	ASTM D573
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	22	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.28		ASTM D150
Dissipation Factor (1 MHz)	4.0E-4		ASTM D150
Additional Information			
Failures after 21 days:0 in 10% Igepal C 0 -6300 in 100% Igepal C 0 -630			
Extrusion	Nominal Value	Unit	
Melt Temperature	115 - 130	°C	
Extrusion instructions			
Cure Temperature : 300~390°CLine Speed : 2~3 m/min			

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