

EMPILON® 8870

Styrene Ethylene Butylene Styrene Block Copolymer

EMPILON

Message:

Comply with WEEE/RoHS directive
Comply with SONY SS-00259 6th requirement
Free of Phthalates plasticizer
Non-toxic and free of TetraBisPhenol A
UL 94 V-0 flame class rating (UL File No.E196953)
EMPILON® 8800 series compound has excellent mechanical properties, good electrical property, low specific gravity and unique anti-flame ability without PBB and PBDE retardants, and are widely applied to wire & cable, plug and flat cable for communication applications. Hydrogenated Styrenic Block Copolymer is the main content of this 8800 series compound, its hardness range is from Shore A 65 to 95 and can be processed by ordinary plastic machinery for Injection, extrusion or calendaring etc.
EMPILON® 8800 series products are 100% recyclable and retain good mechanical properties after heat, weathering and solvent resistance testing and won't hydrolyze in water. They need 80~90°C dehumidified hot air at least 2 hours before any molding process and need to be continually dried during operation. For coloring, please select color master batch based on PE or EVA material with the exception of PVC, non-blooming black color compound is available. Higher screw speed and backpressure are needed for better colorant dispersion.

General Information			
Features	Block Copolymer		
	Low density		
	Recyclable materials		
	Good electrical performance		
	Hydrolysis resistance		
	Non-toxic		
Uses	Wire and cable applications		
	Communication application		
RoHS Compliance	RoHS compliance		
UL File Number	E196953		
Forms	Particle		
Processing Method	Extrusion		
	Calendering		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	10	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	71		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength	9.32	MPa	ASTM D412

Tensile Elongation (Break)	650	%	ASTM D412
Thermal	Nominal Value	Unit	
Brittleness Temperature	-45.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method
Breakdown Voltage	20000	V	ASTM D149
Extruder Screw L/D Ratio	> 24.0		
Extruder Screw Compression Ratio	2.40 - 3.50		
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	2.0	hr	
Rear Temperature	165 - 185	°C	
Middle Temperature	190 - 210	°C	
Front Temperature	190 - 210	°C	
Nozzle Temperature	190 - 210	°C	
Processing (Melt) Temp	190 - 220	°C	
Mold Temperature	40.0 - 60.0	°C	
Injection Pressure	2.94 - 4.90	MPa	
Injection Rate	Moderate-Fast		
Back Pressure	0.785 - 1.18	MPa	
Screw L/D Ratio	20.0:1.0		
Injection instructions			
Hold Time: 5 sec.			
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	2.0	hr	
Cylinder Zone 1 Temp.	190 - 200	°C	
Cylinder Zone 2 Temp.	195 - 210	°C	
Cylinder Zone 3 Temp.	200 - 215	°C	
Cylinder Zone 4 Temp.	190 - 210	°C	
Cylinder Zone 5 Temp.	190 - 210	°C	
Melt Temperature	190 - 220	°C	
Die Temperature	190 - 210	°C	
Extrusion instructions			

Screen Pack: 80/100Conductor pre-heat temperature: 110-150°C

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