

Cevian® SER90

Acrylonitrile Butadiene Styrene

PlastxWorld Inc.

Message:

Cevian® SER90 is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- Flame Retardant
- Heat Resistant

General Information			
UL YellowCard	E315545-100118265		
Additive	Flame Retardant		
Features	Flame Retardant		
	High Heat Resistance		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.2	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.40 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	41.4	MPa	ASTM D638
Flexural Modulus (23°C)	2070	MPa	ASTM D790
Flexural Strength (23°C)	68.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 12.7 mm)	92.2	°C	ASTM D648
Vicat Softening Temperature	102	°C	ASTM D1525
CLTE - Flow	8.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.7E+16	ohms · cm	ASTM D257

Dielectric Strength	40	kV/mm	ASTM D149
Arc Resistance (3.20 mm)	71.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.57 mm	V-0		
3.20 mm	V-0		
6.35 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	79.4 to 85.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	180 to 190	°C	
Middle Temperature	200 to 210	°C	
Front Temperature	220 to 230	°C	
Processing (Melt) Temp	220 to 250	°C	
Mold Temperature	40.0 to 60.0	°C	
Injection Pressure	48.3 to 96.5	MPa	
Injection Rate	Slow-Moderate		
Back Pressure	0.345 to 1.38	MPa	
Screw Speed	40 to 60	rpm	

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