

# Firestone C212-15C

Polyamide 6  
Firestone Textiles Company

Message:

Firestone C212-15C is a polyamide 6 (nylon 6) material. This product is available in North America and is processed by extrusion. The main features of the Firestone C212-15C are:

heat stabilizer  
Lubrication

The typical application field of Firestone C212-15C is: wire and cable

General Information			
Additive	heat stabilizer		
	Lubricant		
Features	Thermal Stability		
	Lubrication		
Uses	Cable sheath		
	Wire sheath		
Appearance	White-like		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	79.2	MPa	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638
Flexural Modulus	2590	MPa	ASTM D790
Flexural Strength	97.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	180	°C	ASTM D648
1.8 MPa, not annealed	65.0	°C	ASTM D648
Melting Temperature	220	°C	
Additional Information			
Relative Viscosity, Test Method Unspecified:Sulfuric Acid: 3.2Formic Acid: 82ModifiedChip Size: 2 x 3.5 mmApprovals: UL			
Extrusion	Nominal Value	Unit	
Suggested Max Moisture	0.080	%	

Cylinder Zone 1 Temp.	249 - 260	°C
Cylinder Zone 3 Temp.	254 - 266	°C
Cylinder Zone 4 Temp.	254 - 266	°C
Cylinder Zone 5 Temp.	260 - 271	°C
Melt Temperature	260 - 271	°C

#### Extrusion instructions

Max Melt Temp: 515 - 550°F Quench: 65 - 75°F

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#### Recommended distributors for this material

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