



No Minimum Order Quantity
No Lead Times to Ship

COPEnhance™ 7211 HS FR

COPEnhance™ 7211 HS FR is a flame retardant, heat stabilized, Shore 72D High Performance copolyester Elastomer designed for the following applications: Cable & Wire Jackets, Insulation, Hose & Tubing and Sheet.

Physical Properties	Metric	English	Comments (Standards/Test Method?)
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Water Absorption,	0.3 % @ Temperature 23.0 °C, Time 86,400 sec	0.3 % Temperature 73.4 °C, Time 24.0 hours	ASTM D570
Max Moisture Content			
- Injection Molding	0.1	0.1	
- Extrusion Molding	0.1	0.1	
Linear Mold Shrinkage,	0.019 cm/cm	0.019 in/in	ASTMD955
Melt Flow, g/10min	12 +/-3 g/10 min @ Load 2.16 kg Temperature 230°C	12 +/-3 @ Load 4.76 lbs Temperature 446°F	ASTMD1238
Mechanical Properties			
Hardness, Shore D	66	66	ASTM D2240
Tensile Strength at Break	45.1 MPa	6540 PSI	ASTM D638
Elongation at Break	400%	400%	ASTM D638
Flexural Modulus	0.471 GPa	68 kpsi	ASTM D790
Izod Impact, Notched	0.49 J/cm (-40C ⁰)	0.918 ft-lb/in (-40C ⁰)	ASTM D256
	1.47 J/cm (23C ⁰)	2.76 ft-lb/in (23C ⁰)	ASTM D256
Tear Strength	162 kN/m	924 pli	ASTM D624
Electrical Properties			
Volume Resistivity	1.00x10 ¹³ Om-cm	1.00x10 ¹³ Om-cm	ASTM D257
Dielectric Strength	26.0 kV/mm @ Thickness 1.00mm	660 kV/in @ Thickness 0.0394 in	ASTM D149
Comparative Tracking Index	600V	600V	Solution



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Thermal Properties	Metric	English	Comments
Melting Point	170°C	338°F	Peak
Processing Properties			
Rear Barrel Temperature	180°C	356°F	Injection Molding
Middle Barrel Temperature	190°C	374°F	Injection Molding
Front Barrel Temperature	200°C	392°F	Injection Molding
Nozzle Temperature	205°C	401°F	Injection Molding
Zone 1	180°C	356°F	Extrusion
Zone 2	190°C	374°F	Extrusion
Zone 3	200°C	392°F	Extrusion
Die Temperature	205°C	401°F	Extrusion
Melt Temperature	210		
Mold Temperature	43°C	110°F	Injection Molding
Drying Temperature	60-80°C	140-176°F	Extrusion Molding
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Dry Time	3.00-4.00 hrs	3.00-4.00 hrs	Extrusion Molding
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