EL-Lene™ M688WC

Medium Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

EL-Lene M688WC is a black medium density polyethylene compound for jacketing in power cable and communication cable applications. It contains well-dispersed carbon black of nominal particle size less than 20 nanometer to provide excellent weathering resistance and UV resistance.

General Information			
Features	Good Processability Good UV Resistance Good Weather Resistance High ESCR (Stress Crack Resist.) Medium Density		
Uses	Communication Applications Communication Cable Jacketing Corrugated Pipe Electronic Cable Jacketing Piping Wire & Cable Applications		
Appearance	Black		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.948	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.24	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F0)	> 1000	hr	ASTM D1693
Carbon Black Content	2.5	%	ASTM D4218
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	55		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]			ASTM D638
Yield	24.0	MPa	
Break	37.0	MPa	
Tensile Elongation [2] (Break)	790	%	ASTM D638
Flexural Modulus	600	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	98	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Oxidation Induction Time (200°C)	> 100	min	ASTM D3895
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.50		ASTM D1531
Dissipation Factor (1 MHz)	5.0E-3		ASTM D1531
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	190 to 220	°C	
NOTE			
1.	50 mm/min		
2.	50 mm/min		

Recommended distributors for this material

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