MEGOLON™ IN700

Thermoplastic

AlphaGary

Message:

MEGOLON® IN700 is a thermoplastic, halogen free, fire retardant cable compound which possess excellent insulation properties.
APPLICATIONS
Spain: UNE 211002
Germany: DIN VDE 0207 part 23, type HJ2
CENELEC: EN 50363-7, types TI6 and TI7. MEGOLON IN700 also meets the requirements of EN 50363-3 for a general purpose PVC insulation compound

General Information			
Features	Halogen-free Flame retardancy		
Uses	Insulating material		
Agency Ratings	DIN VDE 0207 Part 23, Type HJ2 EN 50363-3 EN 50363-7 type TI6 EN 50363-7 type TI7		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.49	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	5.5	g/10 min	ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	55		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			
-- [1]	12.5	MPa	IEC 60811-1-2
-- [2]	12.0	MPa	IEC 60811-1-2
--	13.0	MPa	IEC 60811-1-1
Tensile Strain			
Fracture [3]	160	%	IEC 60811-1-2
Fracture [4]	130	%	IEC 60811-1-2
Fracture	200	%	IEC 60811-1-1
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength	9.50	kN/m	BS 6469 99.1
Aging	**Nominal Value**	**Unit**	
Change in Tensile Strength in Air			
80°C, 168 hr	-4.0	%	

100°C, 240 hr	-8.0	%	
Change in Tensile Strain at Break in Air			
80°C, 168 hr	-18	%	
100°C, 240 hr	-33	%	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Hot Pressing Test (90°C)	20	%	IEC 60811-3-1
Insulation Resistance			BS 6469 99.2
20°C	5.0E+14	ohms·cm	BS 6469 99.2
after 12 hours immersion in water : 20°C	3.0E+14	ohms·cm	BS 6469 99.2
after 2 hours immersion in water : 70°C	1.0E+12	ohms·cm	BS 6469 99.2
after 2 hours immersion in water : 80°C	6.0E+11	ohms·cm	BS 6469 99.2
after 2 hours immersion in water : 90°C	4.0E+11	ohms·cm	BS 6469 99.2
Toxicity	1.10		NES 713
Acid gas emission pH	5.00		IEC 60754-2
Acid gas emission conductivity	10.0	µS/cm	IEC 60754-2
Smoke Density			ASTM E662
Flaming mode [5]		Ds	ASTM E662
Non-flaming mode [6]		Ds	ASTM E662
Halogen Acid Gas Evolution	0.0	%	IEC 60754-1
Extruder Screw Compression Ratio	1.0:1.0 to 2.0:1.0		
Drop down	1.5:1.0		
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Constant (10 MHz)	3.40		ASTM D150
Dissipation Factor (10 MHz)	0.014		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index	33	%	ISO 4589-2
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Immersion in salt solution for 10 days at 60°C under continuous 220V electrical stress, UNE 21031-2 Clause 2.5: Pass			
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	60.0 - 70.0	°C	
Cylinder Zone 1 Temp.	135	°C	
Cylinder Zone 2 Temp.	140	°C	
Cylinder Zone 3 Temp.	145	°C	
Cylinder Zone 4 Temp.	150	°C	
Cylinder Zone 5 Temp.	160	°C	
Melt Temperature	165 - 175	°C	
Die Temperature	165	°C	
NOTE			
1.	after 7 days at 80°C		
2.	after 10 days at 100°C		
3.	after 7 days at 80°C		
4.	after 10 days at 100°C		

5.	Time to maximum: 14 minutes
6.	Time to maximum: 13 minutes

Recommended distributors for this material

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