

MEGOLON™ IN200

Thermoplastic

AlphaGary

Message:

MEGOLON™ IN200 is a thermoplastic, halogen free, fire retardant cable insulation compound suitable for use up to 1kV.

APPLICATIONS

CENELEC: EN 50363-7, types TI6 and TI7. MEGOLON™ IN200 also meets the requirements of EN 50363-3 for a general purpose PVC insulation compound
Germany: DIN VDE 0207 part 23, type HJ2

General Information			
Features	Flame Retardant		
	Halogen Free		
Uses	Insulation		
Agency Ratings	DIN VDE 0207 Part 23, Type HJ2		
	EN 50363-3		
	EN 50363-7 type TI6		
	EN 50363-7 type TI7		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/21.6 kg)	4.5	g/10 min	ISO 1133
Mooney Viscosity (ML 1+4, 140°C)	45	MU	ASTM D1646
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	55		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
-- ¹	19.0	MPa	IEC 60811-1-2
--	15.0	MPa	IEC 60811-1-1
Tensile Strain			
Break ²	120	%	IEC 60811-1-2
Break	170	%	IEC 60811-1-1
Elongation at Break			
after 4 hours, in IRM 902 Oil : 70°C	170	%	
after 7 days, in IRM 902 Oil : 23°C	150	%	
after 7 days, in IRM 903 Oil : 23°C	150	%	
Tensile Strength			
after 4 hours, in IRM 902 Oil : 70°C	14.0	MPa	

after 7 days, in IRM 902 Oil : 23°C	14.0	MPa	
after 7 days, in IRM 903 Oil : 23°C	12.0	MPa	
Cold Elongation (-25°C)	60	%	IEC 60811-1-4
Cold Impact (-25°C)	pass		IEC 60811-1-4
Hot Deformation (90°C)	2.0	%	BS 6469 99.1
Hot Pressure Test (80°C)	20	%	IEC 60811-3-1
Insulation Resistance			BS 6469 99.2
20°C	5.0E+14	ohms·cm	
after 12 hours immersion in water : 20°C	2.0E+13	ohms·cm	
after 2 hours in water : 70°C	7.0E+11	ohms·cm	
Insulation Resistance Constant - K value (70°C) ³	2.5	Mohms·km	BS 6469 99.2
Acid Gas Emission Conductivity	14.0	µS/cm	IEC 60754-2
Acid Gas Emission pH	6.00		IEC 60754-2
Flammability Temperature Index	270	°C	ISO 4589-3
Smoke Density			ASTM E662
Flaming mode ⁴	< 41	Ds	
Non-flaming mode ⁵	< 390	Ds	
Toxicity	2.00		NES 713
Halogen Acid Gas Evolution	0.0	%	IEC 60754-1
Ozone Resistance	pass		ASTM D470
Draw Down	1.5:1.0		
Extruder Screw Compression Ratio	1.0:1.0 to 2.0:1.0		
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	5.00	kN/m	BS 6469 99.1
Aging	Nominal Value	Unit	
Change in Tensile Strength in Air (100°C, 168 hr)	27	%	
Change in Tensile Strain at Break in Air (100°C, 168 hr)	-30	%	
Change in Tensile Stress			
23°C, 168 hr, in IRM 902 Oil	-7.0	%	
23°C, 168 hr, in IRM 903 Oil	-20	%	
70°C, 4 hr, in IRM 902 Oil	-7.0	%	
Change in Tensile Strain at Break			
23°C, 168 hr, in IRM 902 Oil	-15	%	
23°C, 168 hr, in IRM 903 Oil	-15	%	
70°C, 4 hr, in IRM 902 Oil	0.0	%	
Change in Volume			
23°C, 168 hr, in IRM 902 Oil	1.0	%	
23°C, 168 hr, in IRM 903 Oil	20	%	
70°C, 4 hr, in IRM 902 Oil	1.0	%	
Electrical	Nominal Value	Unit	Test Method

Dielectric Constant (50 Hz)	4.00		ASTM D150
Dissipation Factor (50 Hz)	0.020		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	35	%	ISO 4589-2
Extrusion	Nominal Value	Unit	
Drying Temperature	60.0 to 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 to 175	°C	
Die Temperature	165	°C	
NOTE			
1.	after 7 days at 100°C		
2.	after 7 days at 100°C		
3.	after 2 hours in water		
4.	Time to maximum: 12 minutes		
5.	Time to maximum: 11 minutes		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT