

Polidiemme® G/430

Thermoset Elastomer

Solvay Specialty Polymers

Message:

Polidiemme®XLPO-crosslinkable olefin

Elastomeric compound c can be crosslinked by ambient humidity, containing silane pre-grafted matrix compound used with catalyst masterbatch (SIOPLAS® method). Meet the following standards:-Cenelec HD 22.1 EI4, EI6, EI7 and EM3; Cenelec HD 603 DIH1; IEC 60502 EPR; IEC 60092/351 EPR; BS 7655 GP4, GP5 and GP7,VDE 207/20 3GI3

General Information			
Features	Crosslinkable		
	Good flexibility		
Uses	Low voltage insulation		
	Cable sheath		
	Wire and cable applications		
RoHS Compliance	RoHS compliance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ² (190°C/2.16 kg)	0.35	g/10 min	Internal method
Water absorption rate-24 hours(100°C)	1.00	mg/cm ²	IEC 60811
Thermoset ³			IEC 60811
200°C, maximum permanent elongation after cooling	0.0	%	IEC 60811
Load elongation at break at 200 °C	70	%	IEC 60811
Insulation resistance constant			IEC 60502
20°C	5000	Mohms·km	IEC 60502
90°C	150	Mohms·km	IEC 60502
Ring temperature	140 - 170	°C	
Head Temperature	140 - 170	°C	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	40		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	19.0	MPa	IEC 60811
Tensile Elongation (Break)	400	%	IEC 60811
Aging	Nominal Value	Unit	Test Method
0.5MPa, change of mechanical properties after air bomb aging test, 127°C, 40 hr			IEC 60811
Tensile strength change	-6	%	IEC 60811
Change in tensile elongation	-10	%	IEC 60811

Changes in mechanical properties after hot air aging test, 100°C, 336 hr			IEC 60811
Tensile strength change	-17	%	IEC 60811
Change in tensile elongation	-4	%	IEC 60811

Changes in mechanical properties after hot air aging test, 135°C, 168 hr			IEC 60811
Tensile strength change	-10	%	IEC 60811
Change in tensile elongation	-15	%	IEC 60811

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			IEC 60502
20°C	1.4E+15	ohms·cm	IEC 60502
90°C	4.1E+13	ohms·cm	IEC 60502
Dielectric Strength	34	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	2.30		ASTM D150
Dissipation Factor (1 kHz)	8.0E-4		ASTM D150

Additional Information			
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测试报告采用挤压或挤出样本获得,添加了5% 的 Catalyst CT/1,在95°C热水中交联2小时.着色-PE类母粒按重量添加 0.6-1 %;如果储存过程中吸收了水分,建议预烘干色母粒(70-80°C下4-6小时).存储

产品必须按下列条件存储:

--密封,包装袋完好

环境温度不超过30°C

--避免在阳光下曝晒,或露天放置

存放时间过长会造成产品性状改变.

保质期:9个月

如果没有满足上述条件,苏威特种聚合物不承担任何责任.

包装:

采用防潮袋包装. 每袋25 kg,每只货板堆放1375kg.

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	120 - 140	°C
Cylinder Zone 2 Temp.	120 - 150	°C
Cylinder Zone 3 Temp.	130 - 160	°C
Cylinder Zone 4 Temp.	140 - 170	°C
Die Temperature	140 - 170	°C

Extrusion instructions		
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加工: - - POLIDIEMME® G430 预接枝树脂基体必须加用CT/1 母粒促进固化.催化剂用量为混合物重量的5%,应在挤塑加工前不超过2-3小时之内进行配混. 最好用挤出机料斗混合.如果需要耐强UV-VIS 辐射,长期抗老化,建议添加5%的CT/7-LR UV催化剂.用原始包装密封存储于干燥环境的催化剂不需要任何预干燥.如需预干燥,可以在50-60°C温度下干燥4-8小时.

-预接枝基体树脂混和物容易受潮,开袋后需在4小时内使用.预接枝基体树脂不可以预先干燥. 挤塑设备: 一标准PVC挤出机和单/双螺纹螺杆,L/D比为20 :30,恰当调节机筒温度,螺杆较长,需减少催化剂用量.

无需冷却螺杆

-过滤网: 80-160目/ cm ²

建议采用压缩装置 固化: -浸入60-70°C温水中-暴露于环境中 -暴露在中,交联时间取决于环境温度和相对湿度

-不管在什么情况下,固化时间都取决于保温厚度,如在温水中强行固化,壁厚 0.7-1.2 mm ,一般需要 2~4 小时

NOTE		
1.	23°C	
2.	The test did not add Catalyst MB.	
3.	20 N/cm²	

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