

Polidiemme® G/420

Thermoset Elastomer

Solvay Specialty Polymers

Message:

Polidiemme®XLPO-crosslinkable polyolefin elastomer compound c can be crosslinked by ambient humidity and contains silane pre-grafted matrix compound used with catalyst masterbatch (SIOPLAS®method). Meet the following standards:-Cenelec HD 22.1 EI7; Cenelec HD 603 DIH1, DIH2 and DIH3; IEC 60502 EPR and HEPR; IEC 60092/351 EPR and HEPR; BS 7655 GP4, GP5, GP6 and GP7; EN 50363-0 G7; VDE 0207/20 3GI3

General Information			
Features	Low toxicity		
	Crosslinkable		
Uses	Low voltage insulation		
	Cable sheath		
	Wire and cable applications		
RoHS Compliance	RoHS compliance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	0.908	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ² (190°C/2.16 kg)	1.3	g/10 min	Internal method
Water absorption rate-24 hours(100°C)	1.00	mg/cm ²	IEC 60811
Bending test change-In the air, 240 hours(150°C) ³	No cracking		IEC 60811
Thermoset ⁴			IEC 60811
200°C, maximum permanent elongation after cooling	0.0	%	IEC 60811
Load elongation at break at 200 °C	30	%	IEC 60811
250°C, maximum permanent elongation after cooling	0.0	%	IEC 60811
250°C, load elongation at break	50	%	IEC 60811
Insulation resistance constant			IEC 60502
20°C	15000	Mohms · km	IEC 60502
90°C	5000	Mohms · km	IEC 60502
Ring temperature	170 - 190	°C	
Head Temperature	170 - 190	°C	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	32		ISO 868
IRHD Hardness	91		ISO 48
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ⁵	7.00	MPa	IEC 60811
Tensile Strength (Break)	20.5	MPa	IEC 60811

Tensile Elongation (Break)	470	%	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	16	%	IEC 60811
Change in tensile elongation	7	%	IEC 60811
Changes in mechanical properties after hot air aging test, 150°C, 168 hr			IEC 60811
Tensile strength change	10	%	IEC 60811
Change in tensile elongation	5	%	IEC 60811
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			IEC 60502
20°C	4.1E+15	ohms·cm	IEC 60502
90°C	1.3E+15	ohms·cm	IEC 60502
Dielectric Strength	39	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	2.30		ASTM D150
Dissipation Factor (1 kHz)	8.0E-4		ASTM D150
Additional Information			
测试报告采用挤压或挤出样本获得,添加了 5% 的CatalystCT/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 %;如果存储过程中吸收了水份,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形状改变. 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. -500kg纸箱包装			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	140 - 160	°C	
Cylinder Zone 2 Temp.	150 - 170	°C	
Cylinder Zone 3 Temp.	160 - 180	°C	
Cylinder Zone 4 Temp.	170 - 190	°C	
Die Temperature	180 - 220	°C	
Extrusion instructions			
加工: - - POLIDIEMME® G420预接枝基体树脂必须加用 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.如果催化剂用原始包装密封存储于干燥环境不需要任何预干燥.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/ cm² 建议采用压缩装置 固化: -浸入60-70°C温水中-暴露于环境中 -暴露于环境中,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 was performed without adding catalyst MB		

3.	Untinned copper
4.	20 N/cm ²
5.	Elongation 150%

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