

Polidiemme® G/440

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 EI4, EI6, EI7 and EM3; EN 50363-0 G8;IEC 60502 EPR; IEC 60092/351 EPR; BS 7655 RS5 and GP7;VDE 0207/20 3GI3

General Information			
Features	Low toxicity		
	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	0.880	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ² (190°C/2.16 kg)	0.80	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	50	%	IEC 60811
250°C, maximum permanent elongation after cooling	0.0	%	IEC 60811
250°C, load elongation at break	70	%	IEC 60811
Insulation resistance constant			IEC 60502
20°C	15000	Mohms · km	IEC 60502
90°C	500	Mohms · km	IEC 60502
Ring temperature	140 - 170	°C	
Head Temperature	140 - 170	°C	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	18		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	10.0	MPa	IEC 60811
Tensile Elongation (Break)	500	%	IEC 60811
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	3.50	kN/m	ASTM D1938

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	18	%	IEC 60811
Change in tensile elongation	-9	%	IEC 60811
Changes in mechanical properties after hot air aging test, 100°C, 336 hr			IEC 60811
Tensile strength change	10	%	IEC 60811
Change in tensile elongation	0	%	IEC 60811
Changes in mechanical properties after hot air aging test, 135°C, 168 hr			IEC 60811
Tensile strength change	18	%	IEC 60811
Change in tensile elongation	14	%	IEC 60811
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			IEC 60502
20°C	4.1E+15	ohms·cm	IEC 60502
90°C	1.4E+14	ohms·cm	IEC 60502
Dielectric Strength	32	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	2.30		ASTM D150
Dissipation Factor (1 kHz)	1.0E-3		ASTM D150
Chemical Resistance	Nominal Value	Unit	Test Method
IRM 902 oil saturating test, 23°C, 24 hr			IEC 60811
Tensile strength change	-11	%	IEC 60811
Change in tensile elongation	-8	%	IEC 60811
Additional Information			
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20kg,每只货板堆放1100kg.			
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			

加工: - - POLIDIEMME® G440 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,恰当调节机筒筒体温度,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.	20 N/cm ²

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