

Polidan® PNT 0553/23

Crosslinked Polyethylene

Solvay Specialty Polymers

Message:

POLIDAN®PNT 0553/23 is a silane crosslinkable PE composite that can be used with a catalyst masterbatch to accelerate the crosslinking reaction. Can be used for flexible cross-linked pipes. Application: POLIDAN®PNT 0553/23 can be used to produce flexible hoses, connector tubes and supplies that require high flexibility and are in contact with water.

General Information			
Features	Low density		
	Crosslinkable		
	Good flexibility		
Uses	Pipe		
	Connector		
	Rubber substitution		
Agency Ratings	DVGW W270		
	KTW not rated		
Processing Method	Pipeline extrusion molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.40	g/10 min	ISO 1133
Gel content-Crosslinking level	> 65	%	EN 579
Head Temperature	200	°C	
Extruder Screw L/D Ratio	25:1 ~ 30:1		
Extruder Screw Compression Ratio	>2.5:1		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	28.0	MPa	ASTM D638
Tensile Strength	> 20.0	MPa	ASTM D638
Tensile Elongation (Break)	> 400	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	84.0	°C	ISO 306
Specific Heat (23°C)	2030	J/kg/°C	ISO 11357
Thermal Conductivity ¹ (23°C)	0.45 - 0.47	W/m/K	Internal method
Additional Information			

以上数据取自18 x 2 mm单层管道试样典型平均值,该管道用95%POLIDAN® PNT 0553/23 和5 %的Catalyst CT 0552/09挤出成型.管道试样在95 °C的热水中浸渍固化6小时.存储和操作-为了避免过早交联,硅烷可交联化合物和催化剂母料应分别贮存,仅使用时混合.硅烷可交联化合物应在袋打开6 - 8小时内使用.

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40°C

- 室内放置,避免在阳光下曝晒-产品存储时间过长会发生性状改变.苏威特种聚合物建议,按产品包装印制的生产日期,在6个月内使用完毕.如未遵循上述条件,苏威特种聚合物不承担任何责任.包装-POLIDAN® PNT 0553/23按500公斤/箱供应,内含一只防潮袋,也可按照每只防潮袋25 kg,每只货板堆放1375kg的形式供应.技术服务

POLIDAN® PNT 0553/23属于苏威特种聚合物 POLIDAN® PEX 产品系列,

苏威特种聚合物技术服务部门为客户提供包括投产和产品使用过程中任何必要的进一步信息和建议.

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	150 - 200	°C
Cylinder Zone 2 Temp.	150 - 200	°C
Cylinder Zone 3 Temp.	150 - 200	°C
Cylinder Zone 4 Temp.	150 - 200	°C
Cylinder Zone 5 Temp.	150 - 200	°C
Die Temperature	210	°C

Extrusion instructions

加工指南: -硅烷交联料POLIDAN® PNT 0553/23应与一苏威特种聚合物催化剂母料按照比95:5的比例一起使用.应在挤塑前混合,如有自动进料器,可在挤塑过程中混料.POLIDAN® PNT 0553/23可以用现代PE单螺杆挤出机加工. 固化: -管道的最终属性与固化密切相关 -可以通过下列方式进行固化: --浸渍在70-80°C的温水中 --70-80°C温水在管内循环 --暴露在蒸汽下 -不管是何种情况,固化时间取决于管道壁厚,制造结构和固化温度 着色: POLIDAN®混合物和催化剂母料可与高品质PE基色母粒共用.苏威特种聚合物建议,使用前先干燥色母粒.

NOTE

1.
- Hot Plate Method

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