

## Polidan® PNT 0555/06

Crosslinked Polyethylene

Solvay Specialty Polymers

### Описание материалов:

POLIDAN® PNT 0555/06 is a silane crosslinkable PE compound which is used together with a catalyst masterbatch to accelerate the crosslinking reaction. It is used for flexible crosslinkable pipes.

#### Applications

POLIDAN® PNT 0555/06 is used for the production of pipes for domestic hot and cold water supply as well as underfloor heating. This compound is designed for both mono layer and composite pipe solutions.

Главная Информация			
Характеристики	Crosslinkable Хорошая гибкость		
Используется	Детали труб Трубопроводная система		
Метод обработки	Экструзионная формовка труб Экструзия		
Физический	Номинальное значение	Единица измерения	Метод испытания
Удельный вес	0.940	g/cm <sup>3</sup>	ASTM D792
Массовый расход расплава (MFR) (190°C/2.16 kg)	1.6	g/10 min	ISO 1133
Содержание геля-Уровень перекрестной связи	> 65	%	EN 579
Температура головы	200	°C	
Экструдер винт L/D Соотношение	25:1 ~ 30:1		
Экструдер винтовой коэффициент сжатия	>2.5:1		
Механические	Номинальное значение	Единица измерения	Метод испытания
Модуль растяжения (23°C)	570	MPa	ISO 527-2
Прочность на растяжение	> 20.0	MPa	ASTM D638
Удлинение при растяжении (Break)	> 350	%	ASTM D638
Тепловой	Номинальное значение	Единица измерения	Метод испытания
Викат Температура размягчения	126	°C	ASTM D1525
Удельный нагрев (23°C)	2030	J/kg/°C	ISO 11357
Теплопроводность <sup>1</sup> (23°C)	0.45 - 0.47	W/m/K	Internal method
Дополнительная информация			

Above values are typical averages obtained from 18 x 2 mm mono layer pipe specimens which are extruded with 95 parts of POLIDAN® PNT 0555/06 and 5 parts of CATALYST PS/4. These pipe specimens are cured by immersion in hot water at 95°C for 6 hours time. Storage and Handling In order to avoid pre-mature crosslinking, the silane crosslinkable compound and the catalyst masterbatch shall be stored separately and mixed only when used. The silane crosslinkable compound shall be used within 6 - 8 hours after bags are opened.

The product shall be stored under the following conditions:

Closed and unbroken bags

Ambient temperature not exceeding 40°C

Indoor in order to avoid direct exposure to sunlight

The product could undergo alterations due to extended period of storage. Solvay Specialty Polymers suggests the product use within six months from the production date printed on the packaging. Solvay Specialty Polymers accepts no liability of any kind in case the above mentioned conditions are not fulfilled.

Packaging

POLIDAN® PNT 0555/06 is supplied in 500 kg octabins which contain a single moisture resistant bag or in 25 kg moisture resistant bags placed on 1375 kg pallets.

Technical Service

POLIDAN® PNT 0555/06 is part of the Solvay Specialty Polymers POLIDAN® PEX System product range. Solvay Specialty Polymers Technical Service is available to assist customers with further information and advice including the start-up and also for any eventual necessity during the use of the product.

Экструзия	Номинальное значение	Единица измерения
Зона цилиндра 1 темп.	150 - 200	°C
Зона цилиндра 2 температура.	150 - 200	°C
Зона цилиндра 3 темп.	150 - 200	°C
Зона цилиндра 4 темп.	150 - 200	°C
Зона цилиндра 5 темп.	150 - 200	°C
Температура матрицы	210	°C

#### Инструкции по экструзии

Processing Guidelines

The silane crosslinkable compound POLIDAN® PNT 0555/06 shall be used together with a Solvay Specialty Polymers catalyst masterbatch in the ratio of 95 to 5 parts respectively. Mixing shall be done just before extrusion or during the extrusion process with the use of automatic feeders. POLIDAN® PNT 0555/06 can be processed with modern PE single screw extruders.

Curing

The final pipe properties are curing dependent.

Curing can be done in the following ways:

by immersion in hot water at 90-95°C

by circulation of hot water inside the pipe at 90-95°C

by exposure to steam

In all cases curing time depends on the pipe wall thickness, pipe structure and applied curing temperature.

Colouring

POLIDAN® compounds and catalyst masterbatches can be used together with good quality PE based colour masterbatches. Solvay Specialty Polymers suggests pre-drying all colour masterbatches prior to use.

#### NOTE

- Hot Plate Method

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