



Thermoplastic rubber

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Product description :

Thermoplastic elastomer available in a broad hardness range.

SEBS based.

Processing: injection

Product form: granulates (translucent).

Purpose: outdoor use

Application(s) :

Standard material for:

- Translucent parts and seals with good abrasion resistance such as see membranes, whipers...

Main characteristic(s) :

Excellent behaviour to U.V.

Broad chemical inertia to

- Acid and base.

- Dish washing powder.

Abrasion resistance.

Recommended for lively colours.

Outstanding propertie(s):

High flow.

Adapted for bimaterial applications with: PP

According to requirements, these recipes may include some additives to enhance properties.

The 3rd and 4th digits of the product code will become : Release agent "SL", heat resistance "CH".

Standard compliance :

Material meets requirement:

- EN 71-3: Toys (consult us).

- European directive 2000 / 53 EC (end of life vehicle)

- European directive 2002 / 95 EC (RoHS: Restriction of the use of certain hazardous substances for electronic and electric devices)

Also available for food contact (please ask for advise).

Service temperatures :

Ageing resistance up to: +125°C

Service temperatures under limited stress: from -50°C to +50°C

Hardness 35 Shore D and higher

Minimum service temperature: -40°C

Please consult the material safety datasheet before use.

Warning : The information contained herein is accurate to the best of our knowledge, but since the circumstances and conditions in which the material may be used are beyond our control, we do not accept liability for any loss or damage that may occur nor do we offer any warranty of immunity against patent infringement.
The values indicated in the tables only describe typical properties but do not constitute specification limits.

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Processing conditions :

Ready to use

Not hygroscopic and no need for predrying.

Recommended processing conditions:

Injection temperatures: Zone 1=200 - 2=210 - 3=220°C

Compression ratio: 2.5 to 3

High injection speed and high screw revolving speed are recommended.

Remark: These parameters provide standard settings and need to be adapted in function of the applied converting equipment.

Fully compatible with PP; hence suitable for recycling with that polymer.

After grinding the sprue and purging material can be recycled. Percentage to be adapted in function of material processing restrictions.

Marking code for parts: Hardness Shore A: >SEBS<, hardness shore D: >SEBS-PP<

Colouring :

Easy coloration with masterbatch for PP.

Packaging - storage :

- 25 Kg PE bags on pallet (film wrapped).

- 500 and 1000 kg octabin (pending hardness).

- 1000 to 1250 kg bigbag (pending hardness).

Store indoors at a temperature below 50°C and avoid direct sunlight.

Despite a longer shelf storage life without loss of properties, we recommend to use the material within 6 months from the production date.

Table of properties, please see next page.

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Physical mechanical characteristics	Test Methods	Units	30A	35A	40A	45A	50A	57A
Hardness, 15 seconds (ShA)	ISO 868	shore A	30	37	40	45	51	58
Specific gravity	ISO 1183	g/cm ³	0.89	0.89	0.89	0.89	0.89	0.89
Stress at 20 % elongation	ISO 37	MPa	0.5	0.6	0.9	0.9	1.0	1.4
Stress at 100 % elongation	ISO 37	MPa	0.9	1.1	1.2	1.6	1.7	2.1
Tensile strength at break	ISO 37	MPa	4.5	5.0	5.6	5.7	5.9	5.9
Elongation at break	ISO 37	%	800	800	780	720	640	600
Tear strength 1 (angle)	ISO 34-1B(A)	N/mm	18.5	20	23.0	28.0	30	34
Compression set, 22 h. 23°C	ISO R 815 B	%	20	20	20	20	25	25
Compression set, 22 h. 50°C, relaxation 23°C	ISO R 815 B	%	65	65	60	65	70	70
Compression set, 22 h. 50°C, relaxation 50°C	ISO R 815 B / NF.T45-031	%	50	50	50	55	65	65
MFI 190°C - 2.16 kg	ISO 1133	g/10 min	9	4	6	8	8	18
MFI 230°C - 2.16 kg	ISO 1133	g/10 min	>60	40	40	40	50	55
Abrasion loss	DIN 53516	mm ³						

Tested on injected plates.

The figures given are average values and should not be considered as a firm specification.

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Physical mechanical characteristics	Test Methods	Units	60A	65A	70A	75A	80A
Hardness, 15 seconds (ShA)	ISO 868	shore A	60	65	71	75	81
Specific gravity	ISO 1183	g/cm ³	0.89	0.89	0.89	0.89	0.89
Stress at 20 % elongation	ISO 37	MPa	1.7	2.5	3.0	3.2	3.8
Stress at 100 % elongation	ISO 37	MPa	2.5	3.2	4.3	5.0	5.3
Tensile strength at break	ISO 37	MPa	6.0	6.5	8.0	8.5	9.3
Elongation at break	ISO 37	%	600	550	550	500	500
Tear strength I (angle)	ISO 34-1B(A)	N/mm	37	40	45	50	53
Compression set, 22 h. 23°C	ISO R 815 B	%	25	25	25	25	25
Compression set, 22 h. 50°C, relaxation 23°C	ISO R 815 B	%	70	70	70	75	75
Compression set, 22 h. 50°C, relaxation 50°C	ISO R 815 B / NF.T45-031	%	65	65	65	65	65
MFI 190°C - 2.16 kg	ISO 1133	g/10 min	10	12	12	12	12
MFI 230°C - 2.16 kg	ISO 1133	g/10 min	55	58	60	50	45
Abrasion loss	DIN 53516	mm ³	130	130	120	120	120

Tested on injected plates.

The figures given are average values and should not be considered as a firm specification.

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