

ALLFLEX V 11A55

Thermoplastic vulcanized

TECHNICAL DATA SHEET

Product description

ALLFLEX V 11A55 is a vulcanized EPDM/PP based Thermoplastic Vulcanizate(TPV) compound.

Application

Extrusion and injection

GENERAL PROPERTIES

Color:	Natural
Shape of product:	Granule
Processing Method:	Extrusion and Injection Molding
Available Standards:	ISO

Properties	Test conditions	Test method	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	0.94±0,02
Hardness (15s)	Injection Plate	ISO 868	Shore A	55±3
	Extrusion Plate		Shore A	50±3
* Hardness and density can be vary on customer requirements				
Mechanical properties				
Tensile Stress at 100%		ISO 37	MPa	1,8±0,2
Tensile Stress at 300%		ISO 37	MPa	3.1±0,2
Tensile Stress at Break		ISO 37	MPa	4.8±1
Elongation at Break		ISO 37	%	520±40
Tear Strength		ISO 34-1	kN/m	15±1
Thermal properties				
Compression set	23 °C/24h	ISO 815	%	18
	70 °C/24h			28
	100°C/24h			33

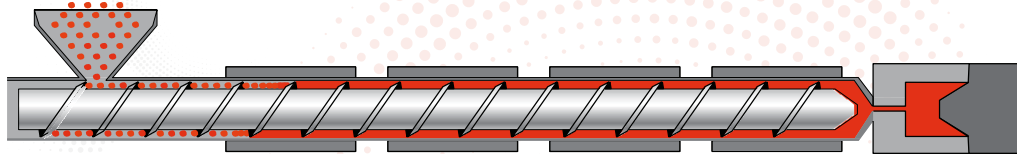


Properties	Test conditions	Test method	Unit	Value
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Material preparation

To ensure a trouble-free processing and high quality of the molded parts is recommended to use ALLFLEX V 11A55 dry.

Recommended processing temperature



Injection moulding	1st Zone 175 ± 10 °C	2nd Zone 185 ± 10 °C	3rd Zone 195 ± 10 °C	Nozzle 205 ± 10 °C	Mould 215 ± 10 °C
Extrusion	1st Zone 170 ± 10 °C	2nd Zone 180 ± 10 °C	3rd Zone 190 ± 10 °C	Head 200 ± 10 °C	Die 210 ± 10 °C

Storage and Handling

For easy handling and storage, the production is supplied as cylindrical pellets packed into 25 kg bags (40 bags per pallet) or bulk bags (1.000 kg). The storage location should be in a cool place away from light and heat sources. The ambient temperature should not exceed 50°C otherwise it can lead to a degradation of the product, which can result in colour changes, odour and effect production performance.

Important

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ALLFLEX V 11A70

Thermoplastic vulcanized

TECHNICAL DATA SHEET

Product description

ALLFLEX V 11A70 is a vulcanized EPDM/PP based Thermoplastic Vulcanizate(TPV) compound.

Application

Extrusion and injection

GENERAL PROPERTIES

Color:	Natural
Shape of product:	Granule
Processing Method:	Extrusion and Injection Molding
Available Standards:	ISO

Properties	Test conditions	Test method	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	0.94±0,02
Hardness (15s)	Injection Plate	ISO 868	Shore A	70±3
	Extrusion Plate		Shore A	65±3
* Hardness and density can be vary on customer requirements				
Mechanical properties				
Tensile Stress at 100%		ISO 37	MPa	2.5±0,2
Tensile Stress at 300%		ISO 37	MPa	5.1±0,2
Tensile Stress at Break		ISO 37	MPa	7±1
Elongation at Break		ISO 37	%	600±40
Tear Strength		ISO 34-1	kN/m	23±1
Thermal properties				
Compression set	23 °C/24h	ISO 815	%	23
	70 °C/24h			37,5
	100°C/24h			45

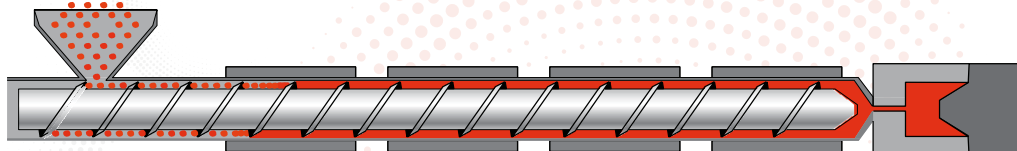


Properties	Test conditions	Test method	Unit	Value
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Material preparation

To ensure a trouble-free processing and high quality of the molded parts is recommended to use ALLFLEX V 11A70 dry.

Recommended processing temperature



Injection moulding	1st Zone 175 ± 10 °C	2nd Zone 185 ± 10 °C	3rd Zone 195 ± 10 °C	Nozzle 205 ± 10 °C	Mould 215 ± 10 °C
Extrusion	1st Zone 170 ± 10 °C	2nd Zone 180 ± 10 °C	3rd Zone 190 ± 10 °C	Head 200 ± 10 °C	Die 210 ± 10 °C

Storage and Handling

For easy handling and storage, the production is supplied as cylindrical pellets packed into 25 kg bags (40 bags per pallet) or bulk bags (1.000 kg). The storage location should be in a cool place away from light and heat sources. The ambient temperature should not exceed 50°C otherwise it can lead to a degradation of the product, which can result in colour changes, odour and effect production performance.

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ALLFLEX V 12A75

Thermoplastic vulcanized

TECHNICAL DATA SHEET

Product description

ALLFLEX V 12A75 is a vulcanized EPDM/PP based Thermoplastic Vulcanizate(TPV) compound.

Application

Extrusion and injection

GENERAL PROPERTIES

Color:	Natural
Shape of product:	Granule
Processing Method:	Extrusion and Injection Molding
Available Standards:	ISO

Properties	Test conditions	Test method	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	0.96±0,02
Hardness (15s)	Injection Plate	ISO 868	Shore A	75±3
	Extrusion Plate		Shore A	70±3
* Hardness and density can be vary on customer requirements				
Mechanical properties				
Tensile Stress at 100%		ISO 37	MPa	3±0,2
Tensile Stress at 300%		ISO 37	MPa	7±0,2
Tensile Stress at Break		ISO 37	MPa	7±1
Elongation at Break		ISO 37	%	480±40
Tear Strength		ISO 34-1	kN/m	26±1
Thermal properties				
Compression set	23 °C/24h	ISO 815	%	27
	70 °C/24h			40
	100°C/24h			49

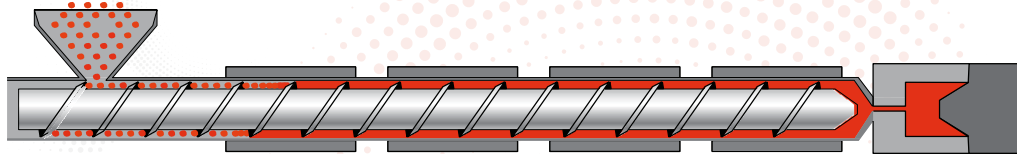


Properties	Test conditions	Test method	Unit	Value
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Material preparation

To ensure a trouble-free processing and high quality of the molded parts is recommended to use ALLFLEX V 12A75 dry.

Recommended processing temperature



Injection moulding	1st Zone 175 ± 10 °C	2nd Zone 185 ± 10 °C	3rd Zone 195 ± 10 °C	Nozzle 205 ± 10 °C	Mould 215 ± 10 °C
Extrusion	1st Zone 170 ± 10 °C	2nd Zone 180 ± 10 °C	3rd Zone 190 ± 10 °C	Head 200 ± 10 °C	Die 210 ± 10 °C

Storage and Handling

For easy handling and storage, the production is supplied as cylindrical pellets packed into 25 kg bags (40 bags per pallet) or bulk bags (1.000 kg). The storage location should be in a cool place away from light and heat sources. The ambient temperature should not exceed 50°C otherwise it can lead to a degradation of the product, which can result in colour changes, odour and effect production performance.

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ALLFLEX V 12A80

Thermoplastic vulcanized

TECHNICAL DATA SHEET

Product description

ALLFLEX V 12A80 is a vulcanized EPDM/PP based Thermoplastic Vulcanizate(TPV) compound.

Application

Extrusion and injection

GENERAL PROPERTIES

Color:	Natural
Shape of product:	Granule
Processing Method:	Extrusion and Injection Molding
Available Standards:	ISO

Properties	Test conditions	Test method	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	0.97±0,02
Hardness (15s)	Injection Plate	ISO 868	Shore A	80±3
	Extrusion Plate		Shore A	75±3
* Hardness and density can be vary on customer requirements				
Mechanical properties				
Tensile Stress at 100%		ISO 37	MPa	3.5±0,2
Tensile Stress at 300%		ISO 37	MPa	6.5±0,2
Tensile Stress at Break		ISO 37	MPa	8±1
Elongation at Break		ISO 37	%	490±40
Tear Strength		ISO 34-1	kN/m	33±1
Thermal properties				
Compression set	23 °C/24h	ISO 815	%	31
	70 °C/24h			41
	100°C/24h			49

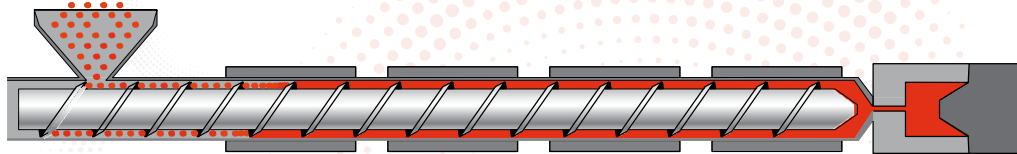


Properties	Test conditions	Test method	Unit	Value
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Material preparation

To ensure a trouble-free processing and high quality of the molded parts is recommended to use ALLFLEX V 12A80 dry.

Recommended processing temperature



Injection moulding	1st Zone 175 ± 10 °C	2nd Zone 185 ± 10 °C	3rd Zone 195 ± 10 °C	Nozzle 205 ± 10 °C	Mould 215 ± 10 °C
Extrusion	1st Zone 170 ± 10 °C	2nd Zone 180 ± 10 °C	3rd Zone 190 ± 10 °C	Head 200 ± 10 °C	Die 210 ± 10 °C

Storage and Handling

For easy handling and storage, the production is supplied as cylindrical pellets packed into 25 kg bags (40 bags per pallet) or bulk bags (1.000 kg). The storage location should be in a cool place away from light and heat sources. The ambient temperature should not exceed 50°C otherwise it can lead to a degradation of the product, which can result in colour changes, odour and effect production performance.

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ALLFLEX V 12A90

Thermoplastic vulcanized

TECHNICAL DATA SHEET

Product description

ALLFLEX V 12A90 is a vulcanized EPDM/PP based Thermoplastic Vulcanizate(TPV) compound.

Application

Extrusion and injection

GENERAL PROPERTIES

Color:	Natural
Shape of product:	Granule
Processing Method:	Extrusion and Injection Molding
Available Standards:	ISO

Properties	Test conditions	Test method	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	0.96±0,02
Hardness (15s)	Injection Plate	ISO 868	Shore A	90±3
	Extrusion Plate		Shore A	85±3
* Hardness and density can be vary on customer requirements				
Mechanical properties				
Tensile Stress at 100%		ISO 37	MPa	4.5±0,2
Tensile Stress at 300%		ISO 37	MPa	7.5±0,2
Tensile Stress at Break		ISO 37	MPa	10±1
Elongation at Break		ISO 37	%	570±40
Tear Strength		ISO 34-1	kN/m	44±1
Thermal properties				
Compression set	23 °C/24h	ISO 815	%	37
	70 °C/24h			48
	100 °C/24h			52

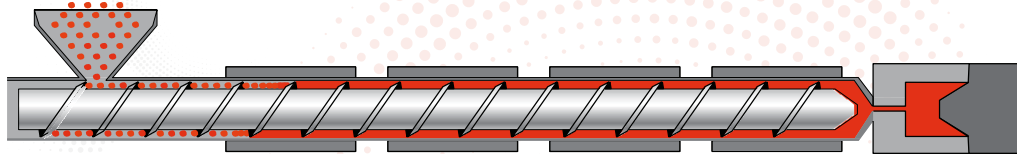


Properties	Test conditions	Test method	Unit	Value
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Material preparation

To ensure a trouble-free processing and high quality of the molded parts is recommended to use ALLFLEX V 12A90 dry.

Recommended processing temperature



Injection moulding	1st Zone 175 ± 10 °C	2nd Zone 185 ± 10 °C	3rd Zone 195 ± 10 °C	Nozzle 205 ± 10 °C	Mould 215 ± 10 °C
Extrusion	1st Zone 170 ± 10 °C	2nd Zone 180 ± 10 °C	3rd Zone 190 ± 10 °C	Head 200 ± 10 °C	Die 210 ± 10 °C

Storage and Handling

For easy handling and storage, the production is supplied as cylindrical pellets packed into 25 kg bags (40 bags per pallet) or bulk bags (1.000 kg). The storage location should be in a cool place away from light and heat sources. The ambient temperature should not exceed 50°C otherwise it can lead to a degradation of the product, which can result in colour changes, odour and effect production performance.

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ALLFLEX SV 12A55.50

Thermoplastic vulcanized

TECHNICAL DATA SHEET

Product description

ALLFLEX SV 12A55.50 is a vulcanized EPDM/PP/SEBS based Thermoplastic Vulcanizate(TPV) compound.

Application

Extrusion and injection

GENERAL PROPERTIES

Color:	Natural
Shape of product:	Granule
Processing Method:	Extrusion and Injection Molding
Available Standards:	ISO

Properties	Test conditions	Test method	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	0.97±0,02
Hardness (15s)	Injection Plate	ISO 868	Shore A	55±3
	Extrusion Plate		Shore A	50±3
* Hardness and density can be vary on customer requirements				
Mechanical properties				
Tensile Stress at 100%		ISO 37	MPa	1,5±0,2
Tensile Stress at 300%		ISO 37	MPa	2.6±0,2
Tensile Stress at Break		ISO 37	MPa	4.0±1
Elongation at Break		ISO 37	%	540±40
Tear Strength		ISO 34-1	kN/m	14±1
Thermal properties				
Compression set	23 °C/24h	ISO 815	%	28
	70 °C/24h			36
	100°C/24h			39

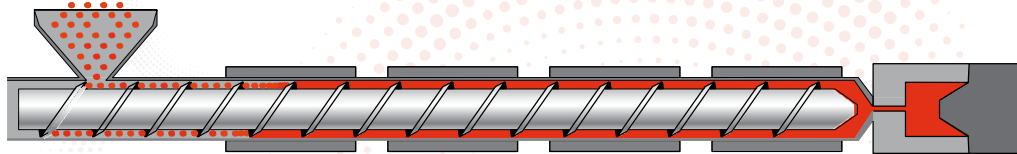


Properties	Test conditions	Test method	Unit	Value
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Material preparation

To ensure a trouble-free processing and high quality of the molded parts is recommended to use ALLFLEX SV 11A55 dry.

Recommended processing temperature



Injection moulding	1st Zone 175 ± 10 °C	2nd Zone 185 ± 10 °C	3rd Zone 195 ± 10 °C	Nozzle 205 ± 10 °C	Mould 215 ± 10 °C
Extrusion	1st Zone 170 ± 10 °C	2nd Zone 180 ± 10 °C	3rd Zone 190 ± 10 °C	Head 200 ± 10 °C	Die 210 ± 10 °C

Storage and Handling

For easy handling and storage, the production is supplied as cylindrical pellets packed into 25 kg bags (40 bags per pallet) or bulk bags (1.000 kg). The storage location should be in a cool place away from light and heat sources. The ambient temperature should not exceed 50°C otherwise it can lead to a degradation of the product, which can result in colour changes, odour and effect production performance.

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ALLFLEX SV 12A70.50

Thermoplastic vulcanized

TECHNICAL DATA SHEET

Product description

ALLFLEX SV 12A70.50 is a vulcanized EPDM/PP/SEBS based Thermoplastic Vulcanizate(TPV) compound.

Application

Extrusion and injection

GENERAL PROPERTIES

Color:	Natural
Shape of product:	Granule
Processing Method:	Extrusion and Injection Molding
Available Standards:	ISO

Properties	Test conditions	Test method	Unit	Value
Physical properties				
Density		ISO 1183	g/cm ³	0.96±0,02
Hardness (15s)	Injection Plate	ISO 868	Shore A	70±3
	Extrusion Plate		Shore A	65±3
* Hardness and density can be vary on customer requirements				
Mechanical properties				
Tensile Stress at 100%		ISO 37	MPa	2.0±0,2
Tensile Stress at 300%		ISO 37	MPa	4.5±0,2
Tensile Stress at Break		ISO 37	MPa	6±1
Elongation at Break		ISO 37	%	650±40
Tear Strength		ISO 34-1	kN/m	25±1
Thermal properties				
Compression set	23 °C/24h	ISO 815	%	30
	70 °C/24h			43
	100°C/24h			49

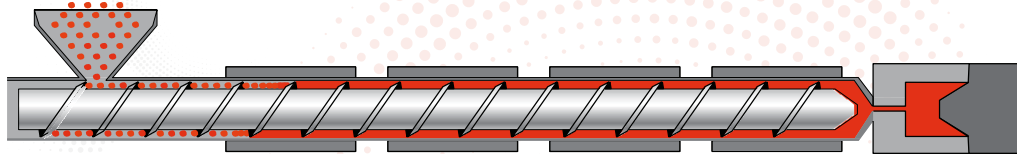


Properties	Test conditions	Test method	Unit	Value
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Material preparation

To ensure a trouble-free processing and high quality of the molded parts is recommended to use ALLFLEX SV 12A70.50 dry.

Recommended processing temperature



Injection moulding	1st Zone 175 ± 10 °C	2nd Zone 185 ± 10 °C	3rd Zone 195 ± 10 °C	Nozzle 205 ± 10 °C	Mould 215 ± 10 °C
Extrusion	1st Zone 170 ± 10 °C	2nd Zone 180 ± 10 °C	3rd Zone 190 ± 10 °C	Head 200 ± 10 °C	Die 210 ± 10 °C

Storage and Handling

For easy handling and storage, the production is supplied as cylindrical pellets packed into 25 kg bags (40 bags per pallet) or bulk bags (1.000 kg). The storage location should be in a cool place away from light and heat sources. The ambient temperature should not exceed 50°C otherwise it can lead to a degradation of the product, which can result in colour changes, odour and effect production performance.

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