





Competence in Plastics

AGRU Kunststofftechnik GmbH is an Austrian, family owned company with worldwide activities in production and sales of high-quality thermoplastic polymer products. One of our core competences are semi-finished products made out of PP, PP-s, PP-s-el, PP-B 2222, PP-foamed PE 100, PE 100-RC, HDPE-el, PVDF, PVDF-Flex and ECTFE.

Sheets, round bars and welding rods are produced on the worlds most modern production lines. A large production range as well as modern stock and logistic capabilities enable fast and technically perfect solutions for many applications worldwide.

The quality management system according to ISO 9001:2008 ensures the best quality made by AGRU Kunststofftechnik GmbH.

High quality - fast available

An important factor for the quality of semi-finished products is the raw material. AGRU uses only raw materials delivered from selected suppliers with excellent product quality. For example our extruded sheets made out of PE 100 fulfil the highest quality requirements verified by the DIBt approval Z-40.26-454, and our PVDF semi-finished products are listed according FM 4910, respectively. Extruded sheets made in HDPE natural, PPnatural, PE 100-RC black and PP-H grey have the certificate V0 (EH) 10/2011 for application in the food industry.

Due to the large application range, especially semi-finished products have to meet high quality demands.

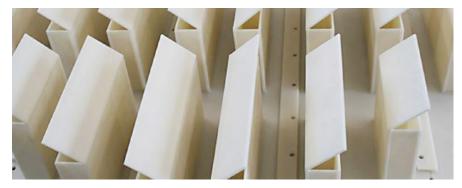






The advantages

- Large product range "ECTFE pressed sheets up to a thickness of 30 mm"
- High grade raw materials "PE 100-RC, PVDF, ECTFE, ..."
- Void-free products verified by ultrasonic inspection
- Clean products
- Exact parallelism of sheets
- Excellent shrinkage, i.e. thermoforming characteristics
- Perfect roundness of round bars
- High homogeneity
- Excellent packaging
- Light weight
- High ageing resistance
- Excellent chemical resistance
- Outstanding weldability
- Excellent abrasion resistance
- Low friction coefficient
- High mechanical strength
- Flexibility
- Excellent insulating features
- Physiologically harmless





SPECIFIC MATERIAL PROPERTIES							
	PE 100	PE 100-RC	PP-H	PP-R	PPB2222		
Density [g/cm³]	0,96	0,96	0,91	0,91	0,91		
Tensile strength [MPa]	25	25	30	25	26		
E-modulus* [MPa]	1100	1100	1300	900	1100		
Expansion[K ⁻¹ x 10 ⁻⁴]	1,8	1,8	1,6	1,6	1,6		
UV-resistant	Yes	Yes	No	No	No		
Standard colour	black	black	grey	grey	grey		
	PE-el	PPs	PPs-el	PVDF	ECTFE		
Density [g/cm³]	0,99	0,93	1,13	1,78	1,68		
Tensile strength [MPa]	26	30	30	50	30		
E-modulus* [MPa]	1150	1300	1400	2000	1690		
Expansion [K ⁻¹ x10 ⁻⁴]	1,8	1,6	1,6	1,2	0,8		
UV-resistant	Yes	No	Yes	Yes	Yes		
Standard colour	black	grey	black	natural	natural		

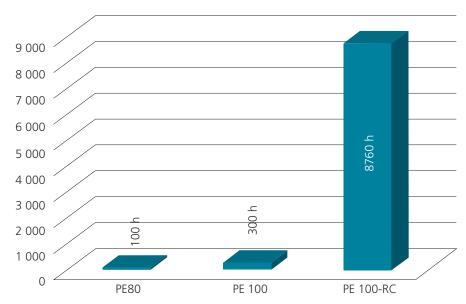




PE 100-RC - the new generation

As a further development for construction of high grade apparaturs and tanks AGRU now offers PE 100-RC sheets and welding rods. This material shows excellent values regarding FNCT "Full Notch Creep Test" behaviour. Another advantage of this new material is the higher strength compared to PE 80 sheets which results in lower wall thickness and therefore advantages in processing and transportation.

FNCT test lifetime [h]



Minimum service lives in the "Full Notch Creep Test" according DVS 2205-1 supplement 6

^{*}Modulus of elasticity



Sheets, round bars, welding rods for a large application field

Semi-finished products made of thermoplastics offer outstanding and durable solutions for the modern and high-quality installation of apparatus and tank constructions as well as for the assembly of abrasion resistant constructions.

The chemical and heavy industries request different properties concerning acid and alkali resistance, temperature changes, and static loads especially when the applications are in explosive areas (ATEX).

Semi-finished products made of PE, PP, PVDF and ECTFE have been successfully used in these sensitive areas for many years.

For fabrication several approved joining technologies such as extrusion, hot-gas and butt welding are applicable.







- Galvanic and pickling tanks
- Gas washer and exhaust vent systems
- Apparatus constructions
- Tank constructions
- Lining of reactors, basins and tanks
- Lining of centrifugals and scrubbers
- Assembly of exhaust vent systems and ventilators
- Wet bench and process plants
- Base product for machined parts
- Thermoforming products
- Light construction systems
- Cutting plates

EXTRUDED SHEETS













						\sim
	sheet 2 m x 1 m	sheet 3 m x 1.5 m	sheet 2,44 m x 1.5 m	sheet 4 m x 2 m	roll 25 m x 1 m	roll 25 m x 1.5 m
PP-H grey (RAL 7032)	1 - 40 mm	3 - 40 mm		3 - 40 mm		
PP-R grey (RAL 7032)	40 mm					
PP-H grey, polyester fabric backed (RAL 7032)	3 - 6 mm	3 - 6 mm			3 - 4 mm	3 - 4mm
PP-H grey, PP fabric backed (RAL 7032)		3 - 6 mm				3 - 4mm
PP-R grey, glass fabric backed (RAL 7032)		5 mm				
PP natural	2 - 6 mm	3 - 25 mm				
PP white (RAL 9003)	6 - 20 mm	6 - 20 mm				
PPs grey (RAL 7037)	3 - 10 mm	3 - 20 mm				
PPs-el black	3 - 20 mm	4 - 15 mm				
PPB2222 grey, polyester fabric backed (RAL 7032)		3 - 4 mm				3 - 4mm
PE 100 black	2 - 30 mm	3 - 40 mm		3 - 30 mm		
PE 100-RC black	35-40 mm	3 - 40 mm		12 - 40 mm		
PE 100 black, polyester fabric backed		5 mm				
HDPE natural	3 - 10 mm	3 - 25 mm				
HDPE-el black	3 - 20 mm	5 - 15 mm				
PVDF natural	2 - 20 mm	3 - 5 mm	5 - 10 mm			
PVDF natural, polyester fabric backed	2 - 5 mm	3 - 4 mm			2 - 3 mm	3 mm
PVDF-FLEX natural, polyester fabric backed		3 mm				
ECTFE natural		2.3 mm				
ECTFE natural, glass fabric backed		2.3 - 3 mm				2.3 mm





PRESSED SHEETS





	sheet 2 m x 1 m	sheet 4 m x 2 m
PP-H grey (RAL 7032)	10 - 60 mm	15 - 60 mm
PP-R grey (RAL 7032)	70 -120 mm	
PP natural	10 - 60 mm	15-60 mm
PPs grey (RAL 7037)	25 - 40 mm	
PE 100 black	10 - 120 mm	15-60 mm
HDPE natural	10 - 80 mm	15-60 mm
HDPE-el black	25 - 60 mm	
PVDF natural	10 - 50 mm	
ECTFE natural	10 - 30 mm	

EXTRUDED ROUND BARS & WELDING RODS















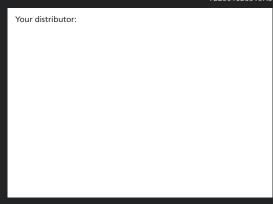


	round bar L = 1 m	welding rod, circular, roll	welding rod, circular, 10 kg roll	welding rod, circular, 1 m bar	welding rod, triangle, roll	welding rod, oval, roll
PP-R grey (RAL 7032)	L = 1 m	3 - 5 mm				
PP-H grey (RAL 7032)		3 - 5 mm	3 - 4 mm	3 - 4 mm	5x3 & 6x4mm	5x3 & 6x4mm
PP natural		3 - 4 mm				
PP white (RAL 9003))	3 - 4 mm				
PPs grey (RAL 7037)	1	3 - 4 mm				
PPs-el black	20 - 100 mm	3 - 4 mm				
PPB 2222 grey (RAL 7032)		3 - 4 mm				
PE 100 black		3 - 5 mm	3 - 5 mm			
PE 100-RC black	15 - 640 mm	3 - 5 mm				
HDPE natural		3 - 4 mm				
HDPE-el black	50 - 160 mm	3 - 4 mm				
PVDF natural	20 - 315 mm	3 - 4 mm		3 mm		
PVDF-FLEX natural						
ECTFE natural	25 - 65 mm	3 - 4 mm				
AGRUPLAST puring rod		4 mm				



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