

Polypropylene - Recyclate

recythen[®] PP

General Data

Form:	Granulate
Use:	Injection Moulding and Extrusion

Physical Properties

Parameter	Test Standard	Value	Deviation	Unit
MFR: 230 °C ; 2,16 kg	ISO 1133-1	14	± 3	g/10min
MFR: / ; /	ISO 1133-1	/	/	g/10min
Density	ISO 1183-1	0,92	± 0,03	g/cm ³
Ash Content	650 °C/15 min	/	/	%
Volatiles	Aqua 130 °C	≤ 300	/	ppm
HDT (1,8 MPa)	ISO 75-2	54	± 3	°C
Vicat (10 N)	ISO 306	145	± 3	°C
Bulk Density	ISO 60	0,54	± 0,05	g/cm ³
Moisture Content	ASTM D6980-17	< 0,2	/	%
Elemental Analysis (XRF)	DIN 51418-2	< 0,1	/	%

Mechanical Properties

Parameter	Test Standard	Value	Deviation	Unit
Tensile Modulus	ISO 527-2	1150	± 150	MPa
Tensile Strength	ISO 527-2	> 21	/	MPa
IZOD Impact Strength				
at 23 ± 2 °C	ISO 180	> 4	/	kJ/m ²
at -30 ± 2 °C	ISO 180	> 2	/	kJ/m ²
Charpy Impact Strength				
at 23 ± 2 °C	ISO 179-1	> 4	/	kJ/m ²
at -30 ± 2 °C	ISO 179-1	> 2	/	kJ/m ²

On request the material can be delivered in various color gradations.

All figures shown in the table are representative and should not be used for establishing specifications.

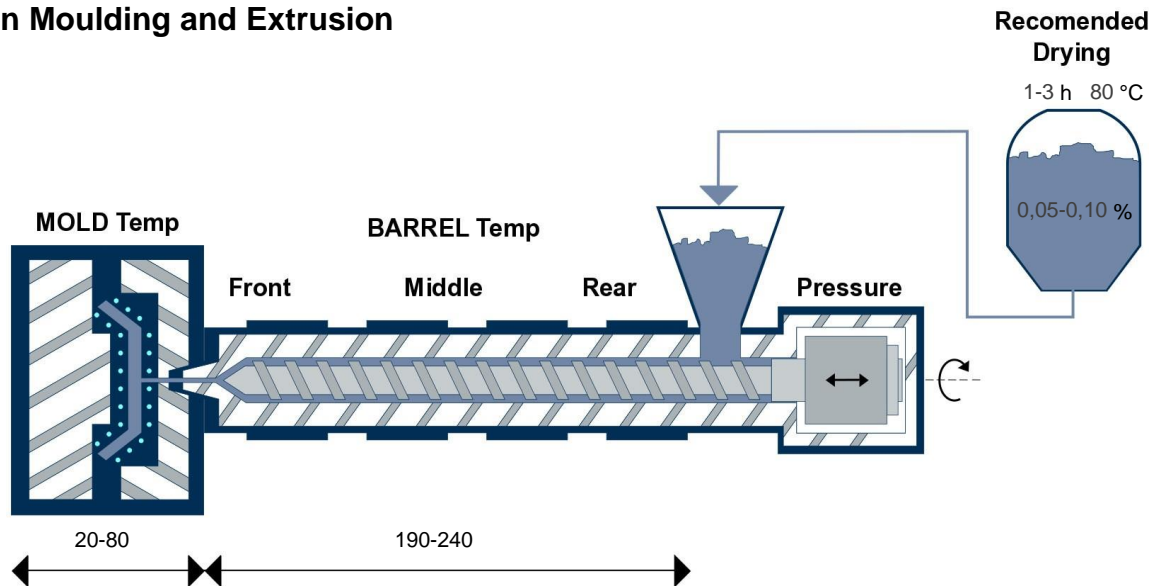
The manufacturing process for this material is EuCertPlast certified. The material complies with the requirements for the 'Blauer Engel' ecolabel.

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Injection Moulding and Extrusion



Injection Moulding

Parameter	Recommended Value	Unit
Injection Pressure	800-1400	bar
Hold Pressure	Minimum (70-80% of injection pressure)	
Melt Temperature	200-240	°C
Melt Temperature	200-220	°C
Extrusion		
Max Temperature	260	°C

Note: The listed processing parameters are general guidelines based on our current knowledge and experience. The suitability of the data for a specific processing method can only be ensured with investigations and tests by the end user.

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