Product Information

Ultramid®

eXten D 437P NATURAL



PA610

Product description

Ultramid® eXten D 437P Natural is an unfilled polyamide 6.10, medium viscosity, unfilled, plasticized, UV and heat stabilized, for extrusion applications. This polyamide 6,10 for extrusion is specially performing where high flexibility and toughness are requested. It is specially developed for automotive and other applications where a long term high temperature usage is requested. It is a partially bio-sourced material.

Extrusion Notes

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment.

Disclaimer

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and it is in no way binding. This information must on no account be used as a substitutive for necessary prior tests which alone can ensure that a product is suitable for a given use. ANY WARRANTY OF PRODUCT PERFORMANCE, MERCHANDABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY EXCLUDED. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of this document, and BASF SE is at their disposal to supply any additional information.

Safety Information

Detailed information regarding safety are available on the safety data sheet (MSDS). MSDS is sent with the first material order or available by contacting our customer services

Regulations Compliance

This product is not intended to be used for the following regulated market: food contact, drinking water, toys, cosmetics or medical devices.

This grade complies with RoHS Directive 2011/65/EU, 2015/863 and local regulations as amended.

Grades produced or imported in Europe comply with REACH directive 1907/2006/EC as amended.

Customer Services

Our customer services are not only concerned with manufacturing and supply of Engineering Plastics products. We are available to assist our customers in finding technical solutions that meet their requirements. Specific support is in particular offered on:

- Material selection
- Material testing
- Parts design advice, training for design engineers
- Part testing
- Design simulation
- Processing through different technologies
- Assembly and post-processing technology expertise
- Parts optimization through Computer Aided Design





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Typical values for uncoloured product at 23 °C1)	Test method	Unit	Values ²⁾
General Properties			
North America Asia Pacific South and Central America Near East/Africa Processing: Injection moulding (M), Extrusion (E), Blow moulding (B) Colour; black (bk), uncoloured (un), coloured (co), transparent (tr) Pellets	- - - - - - -	- - - - -	+ + + E un
Physical			
Molding shrinkage (parallel) Molding shrinkage (normal) Water absorption, 24 h in water, 23 °C Water absorption, equilibrium in water at 23°C Moisture absorption, equilibrium 23°C/50% r.h Density	ISO 294-4 ISO 294-4 ISO 62 similar to ISO 62 similar to ISO 62 ISO 1183	% % % % % kg/m³	1.90 1.90 0.65 1.9 1.10
Mechanical properties			dry / cond.
Tensile modulus Yield stress, 50 mm/min Stress at break Strain at break Flexural modulus Charpy notched impact strength ISO 179/1eA (-30°C) Charpy notched impact strength ISO 179/1eA (23°C) Charpy impact strength ISO 179/1eU (-30°C) Charpy impact strength ISO 179-1eU (23°C)	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eA ISO 179/1eU ISO 179/1eU	MPa MPa MPa % MPa kJ/m² kJ/m² kJ/m²	820 / 450 40 / 35 44 / 40 >200 / >200 720 / 470 3 /- 14 / 140 N / N N / N
Thermal properties			
HDT B (0.45 MPa) HDT A (1.80 MPa) Melting temperature, DSC (10°C/min)	ISO 75-1/-2 ISO 75-1/-2 ISO 11357-1/-3	°C °C	128 52 215
Extrusion Notes			
Pre/Post-processing, max. allowed water content Extrusion cylinder temperature 1 Extrusion cylinder temperature 2 Extrusion cylinder temperature 3 Extrusion, Die temperature	-	% °C °C °C	0.08 200 - 220 210 - 230 215 - 235 210



