

AUROdur® PBT HIGF30 black 9005

Polybutylene Terephthalate
Aurora Kunststoffe GmbH

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Technical Data

Product Description

AUROdur® PBT HIGF30 black ReCompound is a sustainable 30% glass fiber reinforced, heat stabilized and impact modified injection molding grade. Contains sorted post-industrial plastic parts and sprues.

Typical Applications: Switches, connectors, housings, small automotive parts

General

Material Status	• Commercial: Active
Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Heat Stabilizer • Impact Modifier
Recycled Content	• Post-Industrial (PIR)/Pre-Consumer
Features	• Heat Stabilized • Impact Modified
Uses	• Automotive Applications • Housings • Connectors • Switches
Appearance	• Black
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.45 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	15 cm ³ /10min	ISO 1133
Molding Shrinkage		ISO 294-4
Across Flow	0.90 %	
Flow	0.40 %	
Water Absorption		ISO 62
Saturation, 23°C	0.20 %	
Equilibrium, 23°C, 50% RH	0.40 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	7500 MPa	ISO 527-1
Tensile Stress (Break)	85.0 MPa	ISO 527-2
Tensile Strain (Break)	4.5 %	ISO 527-2

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	9.0 kJ/m ²	
23°C	11 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	65 kJ/m ²	
23°C	65 kJ/m ²	

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ISO 75-2/A
1.8 MPa, Unannealed	190 °C	
Melting Temperature ²	225 °C	ISO 11357-3

Flammability	Nominal Value Unit	Test Method
Flame Rating	HB	Internal Method

Injection	Nominal Value Unit	Test Method
Drying Temperature	120 °C	
Drying Time	4.0 hr	
Processing (Melt) Temp	260 °C	
Mold Temperature	80 °C	
Residual Moisture Content	< 0.02 %	Karl Fisher



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Notes

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min



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Where to Buy

Supplier

Aurora Kunststoffe GmbH

Neuenstein, Neuenstein Germany

Telephone: +49-7942-9142-0

Web: <https://www.aurora-kunststoffe.de/>

Distributor

Please contact the supplier to find a distributor for AUROdur® PBT HIGF30 black 9005

