Ultramid® A3HG7 LS BK

PA66-GF35 BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	20 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	11000 / 7700	MPa	ISO 527
Stress at Break	205 / 130	MPa	ISO 527
Strain at Break	3.2 / 5.3	%	ISO 527
Impact Strength (Charpy), +23°C	90 / 95	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	80 / 80	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	10 / 13	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	8.2 / 8.3	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	10500 / 7300	MPa	ISO 178
Flexural strength	305 / 210	MPa	ISO 178

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	260 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	250 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	260 / *	°C	ISO 75-1/-2

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Electric Strength	47 / 39	kV/mm	IEC 60243-1

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1410 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	144 / *	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	280 - 300	°C	-
Mold temperature	80 - 90	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Melt temperature	280 - 300	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Applications

Automotive, Electrical and Electronical

Delivery form

Pellets, Black

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