Ultramid® A3W3G7 bk23325

PA66-GF35 BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	25 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	11000 / 6800	MPa	ISO 527
Stress at Break	195 / 115	MPa	ISO 527
Strain at Break	3.14 / 5.94	%	ISO 527
Impact Strength (Charpy), +23°C	85 / 99	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	70 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	10.7 / 15.2	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	8.6 / 8.7	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	10500 / 6450	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	12.5 / 18.5	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	9.7 / 9.8	kJ/m²	ISO 180/1A
Temperature	-30	°C	-

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	255 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	235 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	255 / *	°C	ISO 75-1/-2

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	6.3 / *	%	Sim. to ISO 62
Density	1420 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	138 / *	cm³/g	ISO 307, 1157, 1628

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

Characteristics

Processing
Injection Molding

Features
Thermal Stability

Delivery form
Pellets, Black

Disclaimer

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