Ultramid® A3HG7 SI bk20564

PA66-GF35 BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	17 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	11200 / 7150	MPa	ISO 527
Stress at Break	205 / 125	MPa	ISO 527
Strain at Break	3.7 / 7	%	ISO 527
Impact Strength (Charpy), +23°C	100 / 110	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	83 / 85	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	12.9 / 17.4	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	10.2 / 9.8	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	10400 / 6700	MPa	ISO 178
Flexural strength	320 / 185	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)	235 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	255 / *	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	HB / *	class	UL 94
Thickness tested	1.6 / *	mm	-

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			
Water Absorption	6 / *	%	Sim. to ISO 62
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1410 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	150 / *	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

Features
Thermal Stability

Delivery form
Pellets, Black

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