Ultramid® A3EG7 FC bk 23280

PA66-GF35 BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	35 / *	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	11500 / 7500	MPa	ISO 527
Stress at Break	200 / 120	MPa	ISO 527
Strain at Break	2.7 / 4.7	%	ISO 527
Impact Strength (Charpy), +23°C	70 / 80	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	8 / 12	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	10700 / 7300	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	8 / 12	kJ/m²	ISO 180/1A

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)	250 / *	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	17.5 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	65 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	HB / *	class	UL 94
Thickness tested	1.6 / *	mm	-

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	5.3 / *	%	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	145 / *	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

Certifications
Food approval, Food approval 10/2011, Food Contact (FDA)

Delivery form
Pellets, Black

Applications
Automotive

Disclaimer

Liability Exclusion
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