

Ultramid® A3XZC3 ESD bk 23187
PA66-CF15

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	7 / *	cm³/10min	ISO 1133
Temperature	300 / *	°C	-
Load	10 / *	kg	-
Molding shrinkage, parallel	0.5 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	10000 / 5800	MPa	ISO 527
Stress at Break	130 / 85	MPa	ISO 527
Strain at Break	3.7 / 8	%	ISO 527
Impact Strength (Charpy), +23°C	70 / 80	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	70 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	13 / 20	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	8000 / 5100	MPa	ISO 178
Flexural strength	180 / 120	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
Coeff. of Linear Therm. Expansion, parallel	14 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	130 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	V-0 / *	class	UL 94
Thickness tested	1.6 / *	mm	-
Glow Wire (GWFI, Flammability Index)	960	°C	IEC 60695-2-12
GWFI - thickness tested (1)	1	mm	-

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Surface Resistivity	* / 1000000	Ohm	IEC 62631-3-2

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1190 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	180 / *	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

Special Characteristics

Flame retardant, Impact modified

Delivery form

Pellets, Black