

Ultramid® T 4381 LDS bk 23215

PA*-(GF+MX)35

BASF

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.6 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577
Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	8700 / -	MPa	ISO 527
Stress at break	110 / -	MPa	ISO 527
Strain at break	2.5 / -	%	ISO 527
Charpy impact strength, +23°C	40 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	4 / -	kJ/m ²	ISO 179/1eA
Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	295 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 0.45 MPa	265 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	30 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	55 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-
Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	4.4 / 4.2	-	IEC 62631-2-1
Dissipation factor, 1MHz	150 / 380	E-4	IEC 62631-2-1
Volume resistivity	1E13 / 1E12	Ohm*m	IEC 62631-3-1
Comparative tracking index	600 / -	-	IEC 60112
Other properties	dry / cond	Unit	Test Standard
Water absorption	4.7 / *	%	Sim. to ISO 62
Humidity absorption	1 / *	%	Sim. to ISO 62
Density	1570 / -	kg/m ³	ISO 1183
Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	130 / *	cm ³ /g	ISO 307, 1157, 1628

Characteristics**Processing**

Injection Molding, Other Extrusion

Delivery form

Pellets, Black

Features

Laser Markable

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa