

Ultramid® Exp.B3E3G6 DC OR
PA6-GF30

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	70 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	9600 / 6500	MPa	ISO 527
Stress at Break	175 / 105	MPa	ISO 527
Strain at Break	2.7 / 6.2	%	ISO 527
Impact Strength (Charpy), +23°C	60 / 50	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	55 / 45	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	9.5 / 11.2	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	7.5 / 7.3	kJ/m²	ISO 179/1eA

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	200 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	220 / *	°C	ISO 75-1/-2
Coeff. of Linear Therm. Expansion, parallel	16 / *	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	60 / *	E-6/K	ISO 11359-1/-2

Electrical Properties	dry / cond	Unit	Test Standard
ISO Data			
Comparative tracking index	525 / -	-	IEC 60112

Other Properties	Value	Unit	Test Standard
ISO Data			
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	110 / *	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	260 - 290	°C	-
Mold temperature	80 - 120	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	260 - 290	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Features

Color Stability

Delivery form

Pellets

Applications

Electrical and Electronical

Disclaimer