

Ultramid® Exp.A3E3G7 DC OR
PA66-GF35

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	30 / *	cm³/10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	11500 / 9600	MPa	ISO 527
Stress at Break	205 / 145	MPa	ISO 527
Strain at Break	2.8 / 3.7	%	ISO 527
Impact Strength (Charpy), +23°C	70 / 78	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	65 / 60	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	10.3 / 11.2	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	8.5 / 8.3	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	10700 / 8850	MPa	ISO 178
Flexural strength	287 / 231	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)	240 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	260 / *	°C	ISO 75-1/-2

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1430 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	125 / *	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	280 - 300	°C	-
Mold temperature	80 - 90	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	280 - 300	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Features

Color Stability

Delivery form

Pellets

Applications

Electrical and Electronical