

Ultramid® Advanced N4HG7 UN
PPA-GF35

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.5 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	11500 / 11500	MPa	ISO 527
Stress at Break	215 / 200	MPa	ISO 527
Strain at Break	2.6 / 2.5	%	ISO 527
Impact Strength (Charpy), +23°C	85 / -	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	75 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	9 / -	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	9 / -	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	10500 / 10500	MPa	ISO 178
Flexural strength	300 / 275	MPa	ISO 178

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	300 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	270 / *	°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	56.5 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	HB / *	class	UL 94
Thickness tested	0.8 / *	mm	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	20.3	mm	-

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1410 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	120 / *	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	320 - 340	°C	-
Mold temperature	100 - 160	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Melt temperature	320 - 340	°C	-

Characteristics

Processing

Injection Molding, Other Extrusion

Delivery form

Pellets, Natural Color

Features

Melt Strength, Thermal Stability

Chemical Resistance

General Chemical Resistance

Applications

Automotive