Ultramid® Advanced N5H UN

PPA BASF

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	2500 / 2500	MPa	ISO 527
Yield stress	85 / 85	MPa	ISO 527
Yield strain	6.5 / 5.5	%	ISO 527
Stress at Break	60 / 55	MPa	ISO 527
Strain at Break	11 / 11	%	ISO 527
Impact Strength (Charpy), +23°C	no break / no break	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	120 / 100	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	8 / 8	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	9 / 9	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	2400 / 2400	MPa	ISO 178
Flexural strength	115 / 115	MPa	ISO 178

Thermal Properties	dry / cond	Unit	Test Standard
ISO Data			
Melting Temperature (10°C/min)	280 / *	°C	ISO 11357-1/-3

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1130 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	130 / *	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	320 - 340	°C	-
Mold temperature	100 - 140	°C	-

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

Characteristics

Processing
Injection Molding, Other Extrusion

Features
Melt Strength, Thermal Stability, Tribologic Grade

Delivery form
Pellets, Natural Color

Chemical Resistance
General Chemical Resistance

Special Characteristics
Impact modified