

Ultramid® B3EK3
PA6-GB15

BASF

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4 / *	%	ISO 294-4, 2577

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3400 / -	MPa	ISO 527
Yield stress	73 / -	MPa	ISO 527
Yield strain	3.5 / -	%	ISO 527
Stress at Break	61 / -	MPa	ISO 527
Strain at Break	15 / -	%	ISO 527
Impact Strength (Charpy), +23°C	26 / -	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy), -30°C	28 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	3.4 / -	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	2.5 / -	kJ/m ²	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)	60 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	160 / *	°C	ISO 75-1/-2

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1230 / -	kg/m ³	ISO 1183
Bulk density	700	kg/m ³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	150 / *	cm ³ /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 - 280	°C	-
Mold temperature	80 - 100	°C	-

Characteristics

Processing

Injection Molding

Features

Low Warpage

Delivery form

Pellets

Applications

Automotive