

Ultramid® C3K6 SW811
(PA66+PA6)-GB30

BASF

Mechanical Properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3700 / 1000	MPa	ISO 527
Stress at Break	70 / 40	MPa	ISO 527
Strain at Break	10 / 40	%	ISO 527
Impact Strength (Charpy), +23°C	40 / no break	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	30 / -	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	3.5 / 10	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	3 / -	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	3000 / 900	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)	70 / *	°C	ISO 75-1/-2

Other Properties	dry / cond	Unit	Test Standard
ISO Data			
Water Absorption	7.5 / *	%	Sim. to ISO 62
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1350 / -	kg/m³	ISO 1183
Bulk density	700	kg/m³	-

Material Specific Properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	145 / *	cm³/g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	280 - 300	°C	-
Mold temperature	80 - 100	°C	-

Characteristics

Processing

Injection Molding

Features

Low Warpage

Delivery form

Pellets, Black

Applications

Automotive