

Excelloy AK15 (AK102)

(ABS+PA*)

Techno-UMG Co., Ltd.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt flow index, MFI	30	g/10min	ISO 1133
Temperature	260	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.8 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Strength	41 / 30	MPa	ISO 527
Flexural modulus, 23°C	1610 / 680	MPa	ISO 178
Flexural strength	59 / 32	MPa	ISO 178
Charpy impact strength, +23°C	69 / 76	kJ/m ²	ISO 179/1eU
Rockwell hardness	R 101	-	ISO 2039-2

ASTM Data			
Tensile Strength	42.2 / 30.4	MPa	ASTM D 638
Flexural Modulus	1960 / 900	MPa	ASTM D 790
Flexural Strength	67.7 / 40.2	MPa	ASTM D 790
Rockwell Hardness	R 102 / R 91	-	ASTM D 785

Other properties	dry / cond	Unit	Test Standard
Density	1060 / -	kg/m ³	ISO 1183
Density	1060	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	2 - 5	h	-
Mold temperature	40 - 80	°C	-
Zone 1	240 - 280	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

High impact or impact modified

Chemical Resistance

General Chemical Resistance

Applications

Electrical and Electronical

Regional Availability

North America, Asia Pacific