

Excelloy EK81 (D5)

ABS

Techno-UMG Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	42	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Strength	41	MPa	ISO 527
Flexural modulus, 23°C	1840	MPa	ISO 178
Flexural strength	59	MPa	ISO 178
Charpy impact strength, +23°C	12	kJ/m ²	ISO 179/1eU
Rockwell hardness	R 102	-	ISO 2039-2
ASTM Data			
Tensile Strength	45.1	MPa	ASTM D 638
Flexural Modulus	2260	MPa	ASTM D 790
Flexural Strength	75.5	MPa	ASTM D 790
Rockwell Hardness	R 104	-	ASTM D 785
Thermal properties			
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Electrical properties			
ISO Data			
Surface resistivity	3E12	Ohm	IEC 62631-3-2
Other properties			
Density	1090	kg/m ³	ISO 1183
Density	1090	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	3 - 6	h	-
Mold temperature	40 - 80	°C	-
Zone 1	190 - 260	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Asia Pacific

Special Characteristics

Increased electrical conductivity, Anti-static, Transparent