

Ubesta 3020 X15

PA12

UBE

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	20	g/10min	ISO 1133
Temperature	235	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	0.9	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	20	g/10min	ASTM D 1238
Temperature	235	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Yield stress	46	MPa	ISO 527
Yield strain	5	%	ISO 527
Strain at break	>50	%	ISO 527
Flexural modulus, 23°C	1400	MPa	ISO 178
Charpy notched impact strength, +23°C	4	kJ/m ²	ISO 179/1eA
Shore D hardness	78	-	ISO 7619-1
Rockwell hardness	R 105	-	ISO 2039-2
ASTM Data			
Tensile Strength at Yield	41	MPa	ASTM D 638
Tensile Strength at Break	54	MPa	ASTM D 638
Elongation at Break	250	%	ASTM D 638
Flexural Modulus	1400	MPa	ASTM D 790
Flexural Strength	54	MPa	ASTM D 790
Rockwell Hardness	R 110	-	ASTM D 785
Izod Impact notched, 1/8 in	51.9	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	178	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	49	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	95	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	140	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 66 psi	141	°C	ASTM D 648
Melting Temperature	178	°C	ASTM D 3418

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1

Other properties	Value	Unit	Test Standard
Density	1020	kg/m ³	ISO 1183
Density	1020	kg/m ³	ASTM D 792

Characteristics**Delivery form**

Natural Color

Regional Availability

North America, Europe