KOPLA® KPE1020

PP KOPLA CO., LTD

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**1.4**	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	**0.017**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	**20**	MPa	ISO 527
Flexural modulus	**500**	MPa	ISO 178
Flexural strength	**15**	MPa	ISO 178
Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
Izod notched impact strength, +23°C	**30**	kJ/m²	ISO 180/1A
Rockwell hardness	**R 85**	-	ISO 2039-2
ASTM Data			
Tensile Modulus	**1100**	MPa	ASTM D 638
Tensile Strength	**20**	MPa	ASTM D 638
Flexural Modulus	**960**	MPa	ASTM D 790
Flexural Strength	**24**	MPa	ASTM D 790
Rockwell Hardness	**R 85**	-	ASTM D 785

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**163**	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**70**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**145**	°C	ISO 75-1/-2
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
ASTM Data			
UL 94 Flame rating	**HB**	-	UL 94
DTUL @ 66 psi	**110**	°C	ASTM D 648
DTUL @ 264 psi	**65**	°C	ASTM D 648
Melting Temperature	**163**	°C	ASTM D 3418

Other properties	Value	Unit	Test Standard
Density	**880**	kg/m³	ISO 1183
Density	**880**	kg/m³	ASTM D 792

Characteristics

Special Characteristics
High impact or impact modified

Regional Availability
North America, Asia Pacific

Applications
Automotive