NOPLA® KE901

PEN — Kolon Industries

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**12**	g/10min	ISO 1133
Temperature	**275**	°C	-
Load	**2.16**	kg	-
Molding shrinkage, parallel	**0.6**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	**64**	MPa	ISO 527
Flexural modulus, 23°C	**2900**	MPa	ISO 178
Charpy notched impact strength, +23°C	**3**	kJ/m²	ISO 179/1eA
ASTM Data			
Tensile Strength	**63**	MPa	ASTM D 638
Flexural Modulus	**2892**	MPa	ASTM D 790

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**265**	°C	ISO 11357-1/-3
Temp. of deflection under load, 0.45 MPa	**115**	°C	ISO 75-1/-2
Burning behav. at thickness h	**V-2**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-
ASTM Data			
UL 94 Flame rating	**V-2**	-	UL 94
Thickness tested	**0.8**	mm	-
DTUL @ 66 psi	**100**	°C	ASTM D 648
Melting Temperature	**280**	°C	ASTM D 3418

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	**2**	%	ASTM D 1003
Light Transmittance	**85**	%	ASTM D 1003

Other properties	Value	Unit	Test Standard
Density	**1340**	kg/m³	ISO 1183
Density	**1340**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**140 - 160**	°C	-
Pre-drying - Time	**3 - 6**	h	-
Processing humidity	**≤0.08**	%	-
Mold temperature	**30 - 80**	°C	-
Zone 1	**200 - 240**	°C	-
Zone 2	**250 - 270**	°C	-
Zone 3	**250 - 280**	°C	-
Nozzle temperature	**260 - 290**	°C	-

Characteristics

Processing
Injection Molding

Features
Homopolymer

Special Characteristics
Transparent

Regional Availability
North America, Asia Pacific