KOPEL® KP3363HR

TPE | Kolon Industries

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	**36**	g/10min	ISO 1133
Temperature	**230**	°C	-
Load	**2.16**	kg	-
Molding shrinkage, parallel	**1.4**	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.4**	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	**18**	g/10min	ASTM D 1238
Temperature	**230**	°C	-
Load	**2.16**	kg	-
Mold Shrinkage, MD	**0.013**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	**45**	MPa	ISO 527
Flexural modulus, 23°C	**276**	MPa	ISO 178
Charpy notched impact strength, +23°C	**120**	kJ/m²	ISO 179/1eA
Shore D hardness	**59**	-	ISO 7619-1
ASTM Data			
Tensile Strength	**36**	MPa	ASTM D 638
Flexural Modulus	**438**	MPa	ASTM D 790
Shore D Hardness	**63**	-	ASTM D 2240
Taber Abrasion Resistance	**7**	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	**N**	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	**120**	J/m	ASTM D 256
Temperature	**-40**	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**210**	°C	ISO 11357-1/-3
Vicat softening temperature, A	**191**	°C	ISO 306
ASTM Data			
UL 94 Flame rating	**HB**	-	UL 94
Thickness tested	**0.8**	mm	-
DTUL @ 66 psi	**65**	°C	ASTM D 648
Melting Temperature	**210**	°C	ASTM D 3418

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	**1E12**	Ohm*m	IEC 62631-3-1
Electric strength	**21.7**	kV/mm	IEC 60243-1

Other properties	Value	Unit	Test Standard
Density	**1220**	kg/m³	ISO 1183
Density	**1230**	kg/m³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**100 - 120**	°C	-
Pre-drying - Time	**3 - 6**	h	-
Processing humidity	**≤0.08**	%	-
Mold temperature	**30 - 80**	°C	-
Zone 1	**180 - 200**	°C	-
Zone 2	**180 - 230**	°C	-
Zone 3	**200 - 240**	°C	-
Nozzle temperature	**220 - 245**	°C	-

Characteristics

Processing
Injection Molding, Other Extrusion

Regional Availability
North America, Asia Pacific