

Kolon NOPLA[®] KE531 PEN-PET Copolyester

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , PEN-PET

Material Notes:

NOPLA[®] is an advanced PEN-PET copolyester which can be used for bottle, sheet & injection molding applications UV protection & prolonged outdoor durability, enhanced gas barrier, outstanding impact strength, excellent chemical and hydrolytic resistance, higher thermal performance, excellent clarity, recyclable & non-toxic, low flammability Information provided by US distributor, API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-NOPLA-KE531-PEN-PET-Copolyester.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	DIN 53479; ASTM D792
Water Absorption	0.070 %	0.070 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Flow	16 g/10 min @Temperature 275 Â°C	16 g/10 min @Temperature 527 Â°F	DSC

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	88	88	DIN 53505; ASTM D785
Tensile Strength, Ultimate	58.8 MPa	8530 psi	DIN 53455; ASTM D638
Elongation at Break	400 %	400 %	DIN 53455; ASTM D638
Flexural Yield Strength	89.2 MPa	12900 psi	DIN 53455; ASTM D790
Flexural Modulus	2.73 GPa	395 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	60 Âµm/m-Â°C @Temperature 20.0 Â°C	33 Âµin/in-Â°F @Temperature 68.0 Â°F	DIN 53752; ASTM D696
Melting Point	241 Â°C	466 Â°F	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	75.0 Â°C	167 Â°F	ASTM D648
Glass Transition Temp, Tg	82.0 Â°C	180 Â°F	DSC
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ASTM D1003

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