

Kolon NOPLA[®] KE531HC 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-KE531HC-PEN-PET-Copolyester.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	DIN 53479; ASTM D792
Water Absorption	0.15 %	0.15 %	DIN 53475; ASTM D570
Linear Mold Shrinkage	0.015 cm/cm	0.015 in/in	ASTM D955
Melt Flow	25 g/10 min @Temperature 275 °C	25 g/10 min @Temperature 527 °F	DSC

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	91	91	DIN 53505; ASTM D785
Tensile Strength, Ultimate	69.6 MPa	10100 psi	DIN 53455; ASTM D638
Elongation at Break	60 %	60 %	DIN 53455; ASTM D638
Flexural Yield Strength	63.7 MPa	9250 psi	DIN 53455; ASTM D790
Flexural Modulus	3.14 GPa	455 ksi	DIN 53452; ASTM D790
Izod Impact, Notched	0.412 J/cm	0.771 ft-lb/in	DIN 53453; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	400 µm/m-°C @Temperature 20.0 °C	222 µin/in-°F @Temperature 68.0 °F	DIN 53752; ASTM D696
Melting Point	215 °C	419 °F	DIN 53736; ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	ASTM D648
Flammability, UL94	HB	HB	

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