

DAK Americas Laser+® W 4000 K42A PET

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

Material Notes:

Product Description: Laser+® W 4000 (K42A) polyethylene terephthalate (PET) resin is a copolymer formulated for conversion to PET bottles by conventional single or two-stage processing technology. **Typical Properties:** Bi-orientation of Laser+® W 4000 (K42A) by injection/stretch blow molding provides optimal barrier and mechanical properties, including superior stress crack resistance. It performs exceptionally well in the manufacture of water bottles where heat up rate and temperature profile through the wall are important. Laser+® W 4000 (K42A) is engineered for water bottle use by providing a slightly lower intrinsic viscosity (IV), allowing for a gentle injection molding process, and improved acetaldehyde (AA) performance. Laser+® W 4000 (K42A) offers superior heat absorption and processing control, even at higher blow molding speeds. A relatively slow crystallization rate enables high injection molding output. **Certification:** Laser+® W 4000 (K42A) is ideally suited for food packaging applications and is considered in compliance with the Food and Drug Administration (FDA) Food Contact Notification (FCN) 000635, covering PET polymers. Information provided by DAK Americas

Order this product through the following link:

http://www.lookpolymers.com/polymer_DAK-Americas-Laser-W-4000-K42A-PET.php

Physical Properties	Metric	English	Comments
Bulk Density	0.833 g/cc	0.0301 lb/in ³	DAK-QAR-SOP-0018
Particle Size	3400 µm	3400 µm	Spherical Shape; DAK-QAR-SOP-0017
Particle Mesh Size	24 Mesh	24 Mesh	Fines: <0.05%, as packaged; DAK-QAR-SOP-0014
Viscosity Measurement	0.73 - 0.77	0.73 - 0.77	[dL/g], Intrinsic; DAK-QAR-SOP-0012
Crystallinity	>= 35 %	>= 35 %	DAK-QAR-SOP-0016

Thermal Properties	Metric	English	Comments
Melting Point	244 °C	471 °F	nominal; DAK-QAR-SOP-0016

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.25 %	<= 0.25 %	DAK-QAR-SOP-0013; as packaged

Descriptive Properties	Value	Comments
Chip Size	31 chips/g	nominal, DAK-QAR-SOP-0015
Color	>69.3 CIE	L*, BD-66060
	-5.9 - -3.5 CIE	b*, BD-66060
Compounds	<2 ppm	Acetaldehyde, DAK-QAR-SOP-0010

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