

DuPont Performance Polymers Rynite® 408 NC010 PET

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 30% Glass Reinforced

Material Notes:

Rynite® 408 NC010 is a 30% glass reinforced modified polyethylene terephthalate with improved impact resistance. Excellent balance of strength, stiffness, toughness, and temperature resistance. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-408-NC010-PET.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Filler Content	30 %	30 %	
Water Absorption	0.060 % @Temperature 23.0 °C	0.060 % @Temperature 73.4 °F	50%RH,23°C,24h; ASTM D570
Viscosity	110000 cP @Shear Rate 3090 1/s, Temperature 305 °C	110000 cP @Shear Rate 3090 1/s, Temperature 581 °F	ISO 11443
	138000 cP @Shear Rate 3090 1/s, Temperature 290 °C	138000 cP @Shear Rate 3090 1/s, Temperature 554 °F	ISO 11443
	157000 cP @Shear Rate 1450 1/s, Temperature 305 °C	157000 cP @Shear Rate 1450 1/s, Temperature 581 °F	ISO 11443
	172000 cP @Shear Rate 3090 1/s, Temperature 275 °C	172000 cP @Shear Rate 3090 1/s, Temperature 527 °F	ISO 11443
	215000 cP @Shear Rate 1450 1/s, Temperature 290 °C	215000 cP @Shear Rate 1450 1/s, Temperature 554 °F	ISO 11443
	218000 cP @Shear Rate 681 1/s, Temperature 305 °C	218000 cP @Shear Rate 681 1/s, Temperature 581 °F	ISO 11443
	260000 cP @Shear Rate 1450 1/s, Temperature 275 °C	260000 cP @Shear Rate 1450 1/s, Temperature 527 °F	ISO 11443
	318000 cP	318000 cP	

Physical Properties	Metric	English	ISO 11443 Comments
	@Shear Rate 681 1/s, Temperature 290 °C	@Shear Rate 681 1/s, Temperature 554 °F	
	322000 cP	322000 cP	ISO 11443
	@Shear Rate 316 1/s, Temperature 305 °C	@Shear Rate 316 1/s, Temperature 581 °F	
	386000 cP	386000 cP	ISO 11443
	@Shear Rate 681 1/s, Temperature 275 °C	@Shear Rate 681 1/s, Temperature 527 °F	
	454000 cP	454000 cP	ISO 11443
	@Shear Rate 316 1/s, Temperature 290 °C	@Shear Rate 316 1/s, Temperature 554 °F	
	463000 cP	463000 cP	ISO 11443
	@Shear Rate 146 1/s, Temperature 305 °C	@Shear Rate 146 1/s, Temperature 581 °F	
	560000 cP	560000 cP	ISO 11443
	@Shear Rate 316 1/s, Temperature 275 °C	@Shear Rate 316 1/s, Temperature 527 °F	
	655000 cP	655000 cP	ISO 11443
	@Shear Rate 146 1/s, Temperature 290 °C	@Shear Rate 146 1/s, Temperature 554 °F	
	663000 cP	663000 cP	ISO 11443
	@Shear Rate 73.0 1/s, Temperature 305 °C	@Shear Rate 73.0 1/s, Temperature 581 °F	
	810000 cP	810000 cP	ISO 11443
	@Shear Rate 146 1/s, Temperature 275 °C	@Shear Rate 146 1/s, Temperature 527 °F	
	935000 cP	935000 cP	ISO 11443
	@Shear Rate 73.0 1/s, Temperature 290 °C	@Shear Rate 73.0 1/s, Temperature 554 °F	
	1.00e+6 cP	1.00e+6 cP	ISO 11443
	@Shear Rate 36.0 1/s, Temperature 305 °C	@Shear Rate 36.0 1/s, Temperature 581 °F	
	1.17e+6 cP	1.17e+6 cP	ISO 11443
	@Shear Rate 73.0 1/s, Temperature 275 °C	@Shear Rate 73.0 1/s, Temperature 527 °F	
	1.29e+6 cP	1.29e+6 cP	ISO 11443
	@Shear Rate 36.0 1/s, Temperature 290 °C	@Shear Rate 36.0 1/s, Temperature 554 °F	

Physical Properties	Metric ⁵ cP	English ¹ cP	Comments
	@Shear Rate 36.0 1/s, Temperature 275 °C	@Shear Rate 36.0 1/s, Temperature 527 °F	ISO 11443
	1.73e+6 cP	1.73e+6 cP	
	@Shear Rate 12.0 1/s, Temperature 305 °C	@Shear Rate 12.0 1/s, Temperature 581 °F	ISO 11443
	1.97e+6 cP	1.97e+6 cP	
	@Shear Rate 7.30 1/s, Temperature 305 °C	@Shear Rate 7.30 1/s, Temperature 581 °F	ISO 11443
	2.55e+6 cP	2.55e+6 cP	
	@Shear Rate 12.0 1/s, Temperature 290 °C	@Shear Rate 12.0 1/s, Temperature 554 °F	ISO 11443
	2.96e+6 cP	2.96e+6 cP	
	@Shear Rate 12.0 1/s, Temperature 275 °C	@Shear Rate 12.0 1/s, Temperature 527 °F	ISO 11443
	3.33e+6 cP	3.33e+6 cP	
	@Shear Rate 7.30 1/s, Temperature 290 °C	@Shear Rate 7.30 1/s, Temperature 554 °F	ISO 11443
	4.11e+6 cP	4.11e+6 cP	
	@Shear Rate 7.30 1/s, Temperature 275 °C	@Shear Rate 7.30 1/s, Temperature 527 °F	ISO 11443
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	Flow
	@Thickness 3.20 mm	@Thickness 0.126 in	
	0.0021 cm/cm	0.0021 in/in	Flow
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	0.0063 cm/cm	0.0063 in/in	Transverse
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	0.0075 cm/cm	0.0075 in/in	Transverse
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Flow	0.0035 cm/cm	0.0035 in/in	Annealed; ISO 294-4
	0.0025 cm/cm	0.0025 in/in	ISO 294-4
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Transverse	0.0105 cm/cm	0.0105 in/in	Annealed; ISO 294-4
	0.0085 cm/cm	0.0085 in/in	ISO 294-4

Physical Properties	@Thickness 2.00 mm Metric	@Thickness 0.0787 in English	Comments
Melt Index of Compound	@Load 5.00 kg, Temperature 280 °C	@Load 11.0 lb, Temperature 536 °F	cm ³ /10 min; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	70	70	ASTM D785
	70	70	ISO 2039/2
Hardness, Rockwell R	115	115	ASTM D785
	115	115	ISO 2039/2
Tensile Strength at Break	125 MPa @Temperature 23.0 °C	18100 psi @Temperature 73.4 °F	ISO 527
Tensile Strength	55.2 MPa @Temperature 150 °C	8010 psi @Temperature 302 °F	ASTM D638
	70.3 MPa @Temperature 90.0 °C	10200 psi @Temperature 194 °F	ASTM D638
	126 MPa @Temperature 23.0 °C	18300 psi @Temperature 73.4 °F	ASTM D638
	206 MPa @Temperature -40.0 °C	29900 psi @Temperature -40.0 °F	ASTM D638
Tensile Stress	20.5 MPa @Strain 1.05 %, Temperature 150 °C	2970 psi @Strain 1.05 %, Temperature 302 °F	ISO 527
	23.5 MPa @Strain 0.960 %, Temperature 120 °C	3410 psi @Strain 0.960 %, Temperature 248 °F	ISO 527
	23.5 MPa @Strain 0.230 %, Temperature 0.000 °C	3410 psi @Strain 0.230 %, Temperature 32.0 °F	ISO 527
	24.5 MPa @Strain 0.260 %, Temperature 40.0 °C	3550 psi @Strain 0.260 %, Temperature 104 °F	ISO 527
	25.6 MPa @Strain 0.240 %, Temperature -40.0 °C	3710 psi @Strain 0.240 %, Temperature -40.0 °F	ISO 527

Mechanical Properties	Metric	English	Comments
	@Strain 0.960 %, Temperature 90.0 °C	@Strain 0.960 %, Temperature 194 °F	ISO 527
	30.4 MPa	4410 psi	
	@Strain 2.10 %, Temperature 150 °C	@Strain 2.10 %, Temperature 302 °F	ISO 527
	35.2 MPa	5110 psi	
	@Strain 0.600 %, Temperature 60.0 °C	@Strain 0.600 %, Temperature 140 °F	ISO 527
	35.9 MPa	5210 psi	
	@Strain 1.92 %, Temperature 120 °C	@Strain 1.92 %, Temperature 248 °F	ISO 527
	36.1 MPa	5240 psi	
	@Strain 3.16 %, Temperature 150 °C	@Strain 3.16 %, Temperature 302 °F	ISO 527
	40.4 MPa	5860 psi	
	@Strain 4.21 %, Temperature 150 °C	@Strain 4.21 %, Temperature 302 °F	ISO 527
	42.7 MPa	6190 psi	
	@Strain 2.88 %, Temperature 120 °C	@Strain 2.88 %, Temperature 248 °F	ISO 527
	44.0 MPa	6380 psi	
	@Strain 5.27 %, Temperature 150 °C	@Strain 5.27 %, Temperature 302 °F	ISO 527
	44.9 MPa	6510 psi	
	@Strain 0.460 %, Temperature 0.000 °C	@Strain 0.460 %, Temperature 32.0 °F	ISO 527
	45.0 MPa	6530 psi	
	@Strain 1.92 %, Temperature 90.0 °C	@Strain 1.92 %, Temperature 194 °F	ISO 527
	45.2 MPa	6560 psi	
	@Strain 0.530 %, Temperature 40.0 °C	@Strain 0.530 %, Temperature 104 °F	ISO 527
	46.8 MPa	6790 psi	
	@Strain 6.32 %, Temperature 150 °C	@Strain 6.32 %, Temperature 302 °F	ISO 527

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China