

Arkema Group Rilsan® Clear G350 Polyamide

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Rilsan® Clear G350 is a high performance transparent polyamide. This grade has been specially designed for injection molding applications, ideally suited for optics as high end eyewear frames. Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-Clear-G350-Polyamide.php

Physical Properties	Metric	English	Comments
Density	0.990 g/cc	0.0358 lb/in ³	ISO R 1183 D
Water Absorption	1.1 %	1.1 %	at equilibrium at 23°C and 50 % RH; ISO 62
	3.0 %	3.0 %	at equilibrium at 23°C in water; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	instantaneous, conditioned 15 day, 23°C - 50 % R.H.; ISO 868
	78	78	conditioned 15 day, 23°C - 50 % R.H.; ISO 868
	@Time 15.0 sec	@Time 0.00417 hour	
Tensile Strength at Break	50.0 MPa	7250 psi	conditioned 15 days, 23°C - 50 % R.H.; ISO 527
Tensile Strength, Yield	50.0 MPa	7250 psi	conditioned 15 days, 23°C - 50 % R.H.; ISO 527
Elongation at Break	>= 150 %	>= 150 %	conditioned 15 days, 23°C - 50 % R.H.; ISO 527
Elongation at Yield	8.0 %	8.0 %	conditioned 15 days, 23°C - 50 % R.H.; ISO 527
Tensile Modulus	1.48 GPa	215 ksi	conditioned 15 days, 23°C - 50 % R.H.; ISO 527
Flexural Modulus	1.34 GPa	194 ksi	conditioned 15 days, 23°C - 50 % R.H.; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	100 J/cm ²	476 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	Metric ^{cm²}	English ^{lb/in²}	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 119/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	ISO 75
Glass Transition Temp, Tg	145 °C	293 °F	ISO 11357

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Processing Properties	Metric	English	Comments
Processing Temperature	250 - 300 °C	482 - 572 °F	Injection
	290 °C	554 °F	Injection, recommended
Mold Temperature	20.0 - 80.0 °C	68.0 - 176 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	

Descriptive Properties	Value	Comments
Transparency	91.5%	560 nm, 2 mm; ISO 13168-1,2

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