

Ryton® XK3340

Syensqo - Polyphenylene Sulfide Alloy

General Information

Product Description

Ryton® XK3340 is a 40% glass fiber reinforced polyphenylene sulfide alloy compound that provides good mechanical strength and stiffness along with low molding flash and excellent resistance to engine coolants (glycol/water) at elevated temperatures.

General

Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight		
Features	• Good Flow • Good Strength • Good Thermal Stability	• Good Toughness • High Rigidity • Hydrolytically Stable	• Low to No Water Absorption • Minimal Flash • Ultra High Glycol Resistance
Uses	• Automotive Applications		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Molding Shrinkage - Flow	8.9E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow	4.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.32E+6	psi	ISO 527-1
Tensile Stress	25400	psi	ISO 527-2
Tensile Strain (Break)	1.3	%	ISO 527-2
Flexural Modulus	2.28E+6	psi	ISO 178
Flexural Stress	32300	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.2	ft-lb/in ²	ISO 179
Charpy Unnotched Impact Strength	14	ft-lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	547	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed	518	°F	ISO 75-2/A
Aging	Nominal Value	Unit	Test Method
Retention of Tensile Modulus			ISO 527-2
1000 hr in 50/50 water-glycol : 266°F	83	%	
3000 hr : 302°F	100	%	
3000 hr : 338°F	110	%	
Retention of Tensile Strength			ISO 527-2
1000 hr in 50/50 water-glycol : 266°F	61	%	
3000 hr : 302°F	88	%	
3000 hr : 338°F	78	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.5E+16	ohms·cm	ASTM D257

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Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI)	262	V	UL 746A

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	248 to 275	°F
Drying Time	4.0	hr
Processing (Melt) Temp	590 to 644	°F
Mold Temperature	275 to 302	°F