

Ryton® XK2340

Polyphenylene Sulfide Alloy

Solvay Specialty Polymers

Message:

Ryton® XK2340 40% glass fiber reinforced polyphenylene sulfide alloy compound provides excellent mechanical strength, toughness, and rigidity, along with excellent flow in thin-walled parts, low flash characteristics, and fast cycle times. It may be easily molded in conventional injection molding equipment utilizing water heated molds.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Fast Molding Cycle		
	Good Flow		
	Good Strength		
	Good Toughness		
	High Rigidity		
Uses	Automotive Applications		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56	g/cm ³	ASTM D792
Molding Shrinkage			
Flow : 3.20 mm	0.30	%	
Across Flow : 3.20 mm	0.60	%	
Water Absorption (23°C, 24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	95		
R-Scale	115		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
--	193	MPa	ASTM D638
--	195	MPa	ISO 527-2
Tensile Elongation (Break)	1.8	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	12400	MPa	ASTM D790
--	12000	MPa	ISO 178
Flexural Strength			
--	255	MPa	ASTM D790

--	270	MPa	ISO 178
Compressive Strength	255	MPa	ASTM D695
Poisson's Ratio	0.42		ISO 527
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
3.18 mm	85	J/m	ASTM D256
--	8.5	kJ/m ²	ISO 180/A
Unnotched Izod Impact			
3.18 mm	640	J/m	ASTM D4812
--	35	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	245	°C	ASTM D648
CLTE			ASTM E831
Flow : -50 to 50°C	2.0E-5	cm/cm/°C	
Flow : 100 to 200°C	1.5E-5	cm/cm/°C	
Transverse : -50 to 50°C	5.5E-5	cm/cm/°C	
Transverse : 100 to 200°C	1.0E-4	cm/cm/°C	
Thermal Conductivity	0.34	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	22	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
25°C, 1 kHz	4.30		
25°C, 1 MHz	3.90		
Dissipation Factor			ASTM D150
25°C, 1 kHz	0.020		
25°C, 1 MHz	0.010		
Arc Resistance	100	sec	ASTM D495
Comparative Tracking Index (CTI)	275	V	UL 746
Insulation Resistance ¹ (90°C)	1.0E+12	ohms	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm, Tested by CP Chemical)	HB		UL 94
Oxygen Index	35	%	ASTM D2863
NOTE			
1.	95%RH, 48 hr		

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