

Ryton° XK2340 polyphenylene sulfide alloy

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.

Material Status	 Commercial: Active 			
Availability	Asia Pacific Europe	Latin AmericaNorth America		
Filler / Reinforcement	Glass Fiber, 40% Filler by Weight			
Features	Fast Molding CycleGood FlowGood Strength	Good Toughness High Rigidity		
Uses	 Automotive Application 	S		
RoHS Compliance	 RoHS Compliant 			
Appearance	• Black			
Forms	• Pellets			
Processing Method	 Injection Molding 			
Physical		Typical Value Unit	Test method	
Density / Specific Gravity		1.56	ASTM D792	
Molding Shrinkage				
Flow : 3.20 mm		0.30 %		
Across Flow : 3.20 mm		0.60 %		
Water Absorption (24 hr, 23°C)		0.30 %	ASTM D570	
Mechanical		Typical 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

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Impact	Typical Value	Unit	Test method
Notched Izod Impact			
3.18 mm	85	J/m	ASTM D256
	8.5	kJ/m²	ISO 180/A
Unnotched Izod Impact			
3.18 mm	640	J/m	ASTM D4812
	35	kJ/m²	ISO 180
Hardness	Typical Value	Unit	Test method
Rockwell Hardness	/		ASTM D785
M-Scale	95		
R-Scale	115		
Thermal	Typical Value	Unit	Test method
Deflection Temperature Under Load	/1		ASTM D648
1.8 MPa, Unannealed	245	°C	
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	Typical 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 746A
Insulation Resistance ¹ (90°C)	1.0E+12	ohms	
Flammability	Typical Value	Unit	Test method
Flame Rating (1.6 mm, Tested by CP Chemical)	НВ		UL 94
Oxygen Index	35	%	ASTM D2863

Notes

Typical properties: these are not to be construed as specifications.

¹ 95%RH, 48 hr

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