E-RIALGLASS B 07 H 20 G

RIALTI S.p.A. - Compounded Polypropylene

Monday, February 26, 2024

General Information

Product Description

Polypropylene compound, 20% reinforced with glass fiber chemically coupled; heat stabilized.

Flowability for injection moulding; available only in black version.

Available .udb file on MoldFlow database.

General		
Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight	
Additive	• Heat Stabilizer	
Recycled Content	• Yes, 60%	
Features	• Chemically Coupled	• Heat Stabilized
Appearance	• Black	
Forms	• Granules	
Processing Method	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.05	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	0.45	%	
Ash Content	20	%	ISO 3451
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	4400	MPa	ISO 527-1/1
Tensile Stress (Break, 23°C)	68.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	3.2	%	ISO 527-2/50
Flexural Modulus [2] (23°C)	4400	MPa	ISO 178
Flexural Stress [2, 3] (23°C)	92.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength			
23°C	33	kJ/m²	ISO 179/1eU
23°C	30	kJ/m²	ISO 179/1fU
Notched Izod Impact Strength			ISO 180/1A
-30°C	5.5	kJ/m²	
23°C	8.0	kJ/m²	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, 15 sec)	80		ISO 868

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/Af
1.8 MPa, Unannealed	135	°C	
Vicat Softening Temperature	116	°C	ISO 306/B50
Accelerated Oven Ageing (150°C)	1000	hr	ISO 4577
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.5 mm)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 90	°C
Drying Time	2.0	hr
Processing (Melt) Temp	200 to 210	°C
Mold Temperature	40 to 60	°C

Notes

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

[2] 2.0 mm/min

[3] Yield