

General Information

General

Material Status	• Commercial: Active		
Filler / Reinforcement	• Glass Fiber, 30 % Filler by Weight		
Additives	• Heat Stabilizer		
Features	• Creep Resistant	• Heat Stabilized	• High Strength
	• Fatigue Resistant	• High Stiffness	• Medium Heat Resistance

ISO Properties¹

Physical	Dry	Conditioned ²	Unit	Test Method
Specific Gravity	1.36	–	g/cm ³	ISO 1183
Water Absorption				
Equilibrium, 23 °C, 50 % r. H.	–	1.8	%	ISO 62
Mechanical	Dry	Conditioned ²	Unit	Test Method
Tensile Modulus				
23 °C	10700	7100	MPa	ISO 527-2
Tensile Stress				
Break, 23 °C	193	131	MPa	ISO 527-2
Tensile Elongation				
Break, 23 °C	3.5	7.8	%	ISO 527-2
Flexural Modulus				
23 °C	9000	6700	MPa	ISO 178
Flexural Strength				
23 °C	301	212	MPa	ISO 178
Impact	Dry	Conditioned ²	Unit	Test Method
Charpy Impact Strength, notched	12	15	kJ/m ²	ISO 179
Charpy Impact Strength, unnotched	73	92	kJ/m ²	ISO 179

Processing Parameters

Drying	Nominal Value	Unit
Drying Temperature	80	°C
Drying Time	4	Hours
Injection Molding	Nominal Value	Unit
Mold Temperature	80	°C
Resin Temperature	280 to 290	°C

Notes

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

² Equilibrium, 23 °C, 50 % r. H.

Disclaimer:

- Data shown are typical values obtained by proper testing methods and should not be used for specification purpose. Please use these data for selecting the most appropriate grade suitable for specific usage.

- These data may be changed because of improvement in properties.

- Be sure to read the relevant SDS before handling and use, and always follow the Important Precautions.

- Do not use plastics in any of the following orally or medically-related applications.

- Orally-related application: any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Chemicals Corporation.

- Medically-related applications: any part, device or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.