

Multilon® R-2020

Polycarbonate + ABS

TEIJIN LIMITED

Message:

Glass fiber reinforced PC/ABS polymer alloy, Automotive series

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Rigidity, high		
	Heat resistance, high		
Uses	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	7.00	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal method
Transverse flow: 4.00mm	0.40 - 0.60	%	Internal method
Flow: 4.00mm	0.10 - 0.30	%	Internal method
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5600	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	100	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2/5
Flexural Modulus ¹ (23°C)	5500	MPa	ISO 178
Flexural Stress ² (23°C)	135	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	10	kJ/m ²	ISO 179
23°C	11	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	32	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	138	°C	ISO 75-2/B
1.8 MPa, not annealed	126	°C	ISO 75-2/A
Vicat Softening Temperature	132	°C	ISO 306/B50
Linear thermal expansion coefficient			ISO 11359-2
Flow	3.0E-5	cm/cm/°C	ISO 11359-2

Lateral	6.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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