

EXCELLOY AK12G20

Acrylonitrile Butadiene Styrene + Nylon

Techno Polymer Co, Ltd.

Message:

EXCELLOY AK12G20 is an Acrylonitrile Butadiene Styrene + Nylon (ABS+Nylon) product filled with 20% glass fiber. It can be processed by injection molding and is available in Asia Pacific or North America.

General Information				
Filler / Reinforcement		Glass Fiber,20% Filler by Weight		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.22	--	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (260°C/10.0 kg)	38	--	g/10 min	ISO 1133
Molding Shrinkage	0.10 to 0.40	--	%	ISO 294-4
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				
R-Scale	116	112		ASTM D785
R-Scale	115	111		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength				
Yield	103	89.2	MPa	ASTM D638
Yield	97.0	82.0	MPa	ISO 527-2
Flexural Modulus				
--	5100	3510	MPa	ASTM D790
--	4750	3390	MPa	ISO 178
Flexural Strength				
--	157	118	MPa	ASTM D790
--	167	117	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	15	28	kJ/m ²	ISO 179
Notched Izod Impact	130	240	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	142	136	°C	ASTM D648
0.45 MPa, Unannealed	135	128	°C	ISO 75-2/B
Injection	Dry	Unit		
Drying Temperature	100 to 110		°C	
Drying Time	2.0 to 5.0		hr	

Rear Temperature	240 to 280	°C
Middle Temperature	240 to 280	°C
Front Temperature	240 to 280	°C
Mold Temperature	50.0 to 100	°C

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