

Tecnoprene® AK6HI NAT001

Polypropylene Homopolymer

SO.F.TER. SPA

Message:

High impact resistance polypropylene homopolymer reinforced with 30% chemically coupled glass fiber

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Chemically Coupled		
	High Impact Resistance		
	Homopolymer		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.8	g/10 min	ASTM D1238
Molding Shrinkage	0.50	%	Internal Method
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Ash Content	30	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	95.0	MPa	ASTM D638
Flexural Modulus	6400	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ASTM D256
-20°C	130	J/m	
23°C	150	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	151	°C	ASTM D648
Vicat Softening Temperature	138	°C	ASTM D1525 ¹
CLTE - Flow	5.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Dielectric Constant (1 kHz)	2.60		ASTM D150
Comparative Tracking Index	650	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Rear Temperature	190	°C	
Middle Temperature	210	°C	
Front Temperature	230	°C	
Mold Temperature	50.0 to 70.0	°C	
NOTE			
1.	Rate A (50°C/h), Loading 2 (50 N)		

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