

SHOKAMID SH 2230 Mineral A

Polyamide 6



General	
Manufacturer / Supplier	SHORAKA SEGANEH Co.
Generic Symbol	Nylon 6
Filler / Reinforcement	Mineral Filler, 20% Filler by Weight
Forms	Pellets
Processing Method	Injection Molding
Uses	Automotive Application Electrical Parts

Physical		Unit	Dry	Conditioned
Density	ASTM D792	g/cm ³	1.36	---
Water Absorption	ASTM D570			
Saturation, 23oC		%	6.3	---
Equilibrium, 23oC, 50% RH		%	2.1	---

Mechanical	Test Method	Unit	Dry	Conditioned
Tensile Modulus	ASTM D638	Mpa	5000	
Tensile Stress (Break)	ASTM D638	Mpa	80	
Tensile Strain (Break)	ASTM D638	%	6	

Impact	Test Method	Unit	Dry	Conditioned
Charpy Notched Impact Strength	ASTM D256			
-30 oC		KJ/m ²	2	---
23 oC		KJ/m ²	6	8
Charpy Unnotched Impact Strength	ASTM D256			
-30 oC		KJ/m ²	60	---
23 oC		KJ/m ²	100	160

Thermal	Test Method	Unit	Dry	Conditioned
Heat Deflection Temperature				
0.45 Mpa, Unannealed	ASTM D648	oC	185	---
1.8 Mpa, Unannealed	ASTM D648	oC	150	---
Melting Temperature	DSC	oC	220	---

Electrical	Test Method	Unit	Dry	Conditioned
Surface Resistivity	IEC 60093	ohms	---	---

Flammability	Test Method	Unit	Dry	Conditioned
Flame Rating - UL (1.60 mm)	UL 94		---	---

Injection	Nominal Value	Unit
Drying Temperature	90.0	oC
Drying Time	4.0 to 8	hr
Rear Temperature	225 to 260	oC

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