

SHOKAMID SH 2040

Polyamide 6



General

Manufacturer / Supplier	SHORAKA SEGANEH Co.
Generic Symbol	Nylon 6
Filler / Reinforcement	-----
Forms	Pellets
Processing Method	Injection Molding
Uses	Automotive Application Furniture Appliance Components Electrical Parts Compound Toys

Physical		Unit	Dry	Conditioned
Density	ASTM D792	g/cm ³	1.14	---
MFR (275oC/5.0 Kg)	ASTM D1238	g/10 min	90 to 120	
Water Absorption	ISO 62			
Saturation, 23oC		%	9.5	---
Equilibrium, 23oC, 50% RH		%	3	---
Relative Viscosity (25oc, 96% Sulfuric Acid)			2.40 to 2.50	---

Mechanical	Test Method	Unit	Dry	Conditioned
Tensile Modulus	ASTM D638	Mpa	3000	2500
Tensile Stress (Break)	ASTM D638	Mpa	70	55
Tensile Strain (Break)	ASTM D638	%	10	25

Impact	Test Method	Unit	Dry	Conditioned
Charpy Notched Impact Strength	ASTM D256			
-30 oC		KJ/m ²	4	---
23 oC		KJ/m ²	8	15
Charpy Unnotched Impact Strength	ASTM D256			
-30 oC		KJ/m ²	40	---
23 oC		KJ/m ²	50	55

Thermal	Test Method	Unit	Dry	Conditioned
Heat Deflection Temperature				
0.45 Mpa, Unannealed	ASTM D648	oC	155	---
1.8 Mpa, Unannealed	ASTM D648	oC	65	---
Melting Temperature	DSC	oC	222	---

Injection	Nominal Value Unit
Drying Temperature	90.0 oC
Drying Time	4.0 to 8 hr
Rear Temperature	225 to 280 oC

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