

Hyosung Polyketone M730A

Polyketone, Aliphatic

Hyosung Corporation

Message:

Hyosung Polyketone M730A
A high viscosity grade for injection molding & extrusion. (Natural color)

General Information			
Features	High Viscosity		
Appearance	Natural Color		
Processing Method	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (255°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.8 to 2.0	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	0.45	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	58.8	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	> 300	%	ASTM D638
Flexural Modulus (23°C)	1420	MPa	ASTM D790
Flexural Strength (23°C)	58.8	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	196	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	210	°C	
1.8 MPa, Unannealed	105	°C	
Melting Temperature	220	°C	ASTM D1525

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149

Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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