

Hyosung Polyketone M640A

Polyketone, Aliphatic

Hyosung Corporation

Message:

Hyosung Polyketone M640A
High viscosity and Heat-resisting grade for injection molding (Natural color)

General Information			
Features	High Heat Resistance		
	High Viscosity		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (240°C/2.16 kg)	6.0	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)	63.7	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	> 300	%	ASTM D638
Flexural Modulus (23°C)	1670	MPa	ASTM D790
Flexural Strength (23°C)	63.7	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	220	°C	
1.8 MPa, Unannealed	115	°C	
Melting Temperature	235	°C	ASTM D1525
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

