

Optimum® 2014-XE

Copolyester

RAUH Polymers, Inc.

Message:

Optimum® 2014-XE is a Copolyester product. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

General Information			
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	ASTM D955
Water Absorption			ASTM D570
23°C, 24 hr	0.15	%	
Equilibrium, 23°C	0.35	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	75		
R-Scale	118		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	55.2	MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Yield, 3.18 mm	6.5	%	
Break	130	%	
Flexural Modulus	2070	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	800	J/m	ASTM D256
Instrumented Dart Impact	36.2	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	105	°C	
1.8 MPa, Unannealed, 3.18 mm	95.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
NOTE			
1.	Type I		
2.	Type I		

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