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VALOX™ RESIN V8030CS

REGION AMERICAS

DESCRIPTION

Dual processable for use in cooking appliance components such as gas-assist molded handles and injection molded end caps

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	99	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	98	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.7	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.8	%	ASTM D 638
Nominal Strain, brk, 5 mm/min	8.6	%	ASTM D 638
Tensile Modulus, 5 mm/min	6170	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	148	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	148	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	5580	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	95	MPa	ISO 527
Tensile Stress, break, 5 mm/min	103	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.1	%	ISO 527
Tensile Strain, break, 5 mm/min	2	%	ISO 527
Tensile Modulus, 1 mm/min	5880	MPa	ISO 527
Flexural Stress	148	MPa	ISO 178
Flexural Strain, break, 2 mm/min	3.4	%	ISO 178
Flexural Modulus	5480	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	58	J/m	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	4	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	4	kJ/m²	ISO 180/1A
Charpy Impact, notched, 23°C, 80*10*4mm, Cut	23	kJ/m²	ISO 179/1eA
THERMAL			
Vicat Softening Temp, Rate A/50	224	°C	ASTM D 1525
HDT, 0.45 MPa, 3.2 mm	220	°C	ASTM D 648
HDT, 1.82 MPa, 3.2 mm	173	°C	ASTM D 648
Vicat Softening Temp, Rate A/50	222	°C	ISO 306
Vicat Softening Temp, Rate A/120	222	°C	ISO 306
PHYSICAL			
Density	1.43	g/cm³	ASTM D 792
Density	1.43	g/cm³	ISO 1183
Melt Volume Rate, MVR at 265°C/2.16 kg	29	cm³/10 min	ISO 1133
Melt Volume Rate, MVR at 265°C/5.0 kg	75	cm³/10 min	ISO 1133