

VESTAMID E55-S4

PA12

Daicel-Evonik Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	15	cm ³ /10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-
Mechanical properties			
ISO Data			
Tensile Modulus	220	MPa	ISO 527
Yield stress	17	MPa	ISO 527
Yield strain	38	%	ISO 527
Stress at break	36	MPa	ISO 527
Strain at break	>50	%	ISO 527
Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	N	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	N	kJ/m ²	ISO 179/1eA
Rockwell hardness	R60	-	ISO 2039-2
Thermal properties			
ISO Data			
Melting temperature, 10°C/min	165	°C	ISO 11357-1/-3
Temp. of deflection under load, 0.45 MPa	90	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	200	E-6/K	ISO 11359-1/-2
Electrical properties			
ISO Data			
Volume resistivity	7E6	Ohm*m	IEC 62631-3-1
Electric strength	35	kV/mm	IEC 60243-1
Other properties			
Water absorption	1.1	%	Sim. to ISO 62
Humidity absorption	0.5	%	Sim. to ISO 62
Density	1010	kg/m ³	ISO 1183

Characteristics**Special Characteristics**

High impact or impact modified, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Chemical Resistance

General Chemical Resistance, Solvent Resistance

Regional Availability

North America, Europe, Asia Pacific, South and Central America