Bayblend R-T60

Non-reinforced recyclate grades / Standard

Standard recyclate grade; property level comparable with T65; Vicat/B 120 temperature = 120 °C; Izod notched impact strength at -30 °C = 20 kJ/m2; not all colors available.

ISO Shortname

	Property	Test Condition	Unit	Standard	Value
Rheological properties					
	Spiral flow length	0.100 in, 490 °F melt temperature	in	Bayer test	15
	Melt flow rate	260 °C; 5 kg	g/(10 min)	ASTM D 1238	15
Mechanical properties (23 °C/50 % r.h.)					
	Tensile modulus		lb/in²	ASTM D 638	305000
	Tensile stress at yield		lb/in²	ASTM D 638	6525
	Tensile elongation at yield		%	ASTM D 638	4
	Tensile stress at break		lb/in²	ASTM D 638	5800
	Tensile elongation at break		%	ASTM D 638	>40
	Unnotched impact strength	73 °F, 0.125 in	ft·lb/in	ASTM D 4812	no break
	Izod notched impact strength	73 °F, 0.125 in	ft·lb/in	ASTM D 256	8
	Izod notched impact strength	-22 °F; 0.125 in	ft·lb/in	ASTM D 256	5
Thermal properties					
	Deflection temperature under load, Unannealed	264 psi; 0.125 in	°F	ASTM D 648	215
	Deflection temperature under load, Unannealed	66 psi; 0.125 in	°F	ASTM D 648	250
	Vicat softening temperature	Rate B; 5 kg; 120 °C/h	°F	ASTM D 1525	248
Electrical properties (23 °C/50 % r.h.)					
	Relative permittivity	100 Hz	-	IEC 60250	3.1
	Relative permittivity	1 MHz	-	IEC 60250	3.0
	Dissipation factor	100 Hz	10^{-4}	IEC 60250	30
	Dissipation factor	1 MHz	10^{-4}	IEC 60250	85
	Volume resistivity		Ohm·m	IEC 60112	1E14
	Surface resistivity		Ohm	IEC 60093	1E16
	Dielectric strength		kV/mm	IEC 60243-1	35
	Comparative tracking index CTI	Solution A	Rating	IEC 60112	250
Other properties (23 °C)					
	Water absorption	73 °F; immersion to saturation; 0.125 in	%	ISO 62	0.7
	Water absorption	73 °F, 50% RH in air to saturation, 0.125-in	%	ISO 62	0.2
	Density		kg/m³	ASTM D 792	1130
Processing conditions for test specimens					
C	Injection molding-Melt temperature		°C	ISO 294	260
C	Injection molding-Mold temperature		°C	ISO 294	80
C	Injection molding-Injection velocity		mm/s	ISO 294	240