

Impet® 340R

Celanese Corporation - Polyethylene Terephthalate

Tuesday, November 5, 2019

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Genera	Inte	\rm	ation.

Product Description

RoHS Compliance

Impet 340R is a 45% glass-reinforced injection moldable polyester made with post consumer recycled PET. It provides an excellent combination of strength, stiffness, and high temperature resistance.

General
Material Status

Availability	Africa & Middle East Asia Pacific	Europe Latin America	North America
•	Asia Pacific	Latin America	

· Commercial: Active

Filler / Reinforcement • Glass Fiber, 45% Filler by Weight

Recycled Content • Yes

Features • Good Stiffness • Good Strength • High Heat Resistance

Contact Manufacturer

Processing Method • Injection Molding

ASTN	۱&	ISO	Pro	perties ¹
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Physical	Nominal Value	Unit	Test Method
Density	1.73	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/2.16 kg)	4.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.60	%	
Flow	0.20	%	
Elongational Stress F - 150/10	22	psi	ISO 11542-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.44E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	25200	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.7	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	2.23E+6	psi	ISO 178
Flexural Stress (73°F)	37600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	4.3	ft·lb/in²	
73°F	5.2	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	10	ft·lb/in²	
73°F	11	ft·lb/in²	
Notched Izod Impact Strength (73°F)	4.5	ft·lb/in²	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	121		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	464	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	444	°F	ISO 75-2/A
Glass Transition Temperature ²	163	°F	ISO 11357-2
Melting Temperature ²	471	°F	ISO 11357-3
CLTE - Flow	7.8E-6	in/in/°F	ISO 11359-2



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Thermal	Nominal Value	Unit	Test Method
CLTE - Transverse	4.6E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Arc Resistance	80.0	sec	Internal Method
Comparative Tracking Index	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.03 in)	НВ		UL 94
Oxygen Index	22	%	ISO 4589-2

Nominal Value	Unit
000 +- 004	
266 to 284	°F
4.0	hr
0.010	%
68 to 122	°F
491 to 509	°F
500 to 527	°F
500 to 527	°F
518 to 554	°F
500 to 554	°F
230 to 250	°F
Moderate-Fast	
	0.010 68 to 122 491 to 509 500 to 527 500 to 527 518 to 554 500 to 554 230 to 250

Feeding zone temperature: 255 to 265°C Zone4 temperature: 265 to 280°C Hot runner temperature: 260 to 290°C

Notes

¹ Typical properties: these are not to be construed as specifications.



² 10°C/min