

LEXANT™ RESIN T5R141RC

ETP COMPOUND FROM TRUCIRCLE™ PORTFOLIO
REGION ASIA

DESCRIPTION

LEXANT™ T5R141RC is an ETP compound, which is formulated with 50wt% post-consumer recycled plastics. The grade is part of SABIC's TRUCIRCLE™ portfolio and services. LEXANT™ T5R141RC resin is a 11 MFR polycarbonate. Mold release.

TYPICAL PROPERTY VALUES

Revision 20220216

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	62	MPa	ASTM D638
Tensile Stress, brk, Type I, 50 mm/min	68	MPa	ASTM D638
Tensile Strain, yld, Type I, 50 mm/min	6	%	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	130	%	ASTM D638
Tensile Modulus, 50 mm/min	2280	MPa	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	99	MPa	ASTM D790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	96	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2300	MPa	ASTM D790
IMPACT			
Izod Impact, unnotched, 23°C	3000	J/m	ASTM D4812
Izod Impact, notched, 23°C	750	J/m	ASTM D256
THERMAL			
Vicat Softening Temp, Rate B/50	150	°C	ASTM D1525
HDT, 1.82 MPa, 3.2mm, unannealed	130	°C	ASTM D648
CTE, -40°C to 95°C, flow	6.8E-05	1/°C	ASTM E831
PHYSICAL			
Specific Gravity	1.2	-	ASTM D792
Melt Flow Rate, 300°C/1.2 kgf	10.2	g/10 min	ASTM D1238
Mold Shrinkage, flow, 3.2 mm	0.5 – 0.7	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm	0.5 – 0.7	%	SABIC method
Water Absorption, (23°C/24hrs)	0.35	%	ASTM D570
Moisture Absorption, (23°C/50% RH/24 hrs)	0.15	%	ASTM D570
Melt Volume Rate, MVR at 300°C/1.2 kg	10.2	cm³/10 min	ISO 1133
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	3 – 4	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	295 – 315	°C	
Nozzle Temperature	290 – 310	°C	
Front - Zone 3 Temperature	295 – 315	°C	
Middle - Zone 2 Temperature	280 – 305	°C	
Rear - Zone 1 Temperature	270 – 295	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Temperature	70 – 95	°C	
Back Pressure	0.3 – 0.7	MPa	
Vent Depth	0.025 – 0.076	mm	

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