

INEOS PP R35C-00

Polypropylene Random Copolymer

INEOS Olefins & Polymers USA

Message:

R35C-00 is a high flow rate, high clarity random copolymer. In addition to clarity, its benefits include rapid molding cycles and good impact at room and refrigerator temperatures. It meets the requirements of the U.S. Food and Drug Administration, as specified in 21 CFR 177.1520. Typical applications are thin-wall rigid packaging, consumer products, housewares and medical items.

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Impact Resistance		
	High Clarity		
	High Flow		
	Random Copolymer		
Uses	Consumer Applications		
	Household Goods		
	Medical/Healthcare Applications		
	Thin-walled Packaging		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.903	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	87		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	29.1	MPa	
Break	22.2	MPa	
Tensile Elongation ²			ASTM D638
Yield	14	%	
Break	750	%	
Flexural Modulus - 1% Secant ³	1070	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			ASTM D256
4°C	32	J/m	
23°C	48	J/m	
Notched Izod Impact (Area)			ASTM D256
4°C	3.00	kJ/m ²	
23°C	4.70	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	79.3	°C	ASTM D648
Vicat Softening Temperature	131	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	96		ASTM D2457
Haze ⁴ (1270 μm)	18	%	ASTM D1003
NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	1.3 mm/min		
4.	23°C		

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